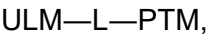


REIVINDICACIONES

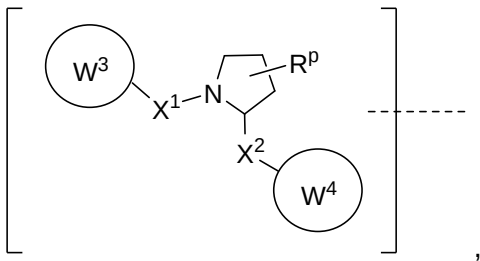
1. Un compuesto bifuncional que tiene la estructura química:



o una sal farmacéuticamente aceptable de este,

donde:

ULM es:



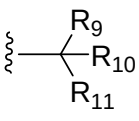
en donde

X¹ y X² se seleccionan cada uno de manera independiente de un enlace, O, NR^{Y3}, CR^{Y3}R^{Y4}, C=O, C=S, SO y SO₂;

R^{Y3} y R^{Y4} se seleccionan cada uno de manera independiente de H, alquilo C₁₋₆ opcionalmente sustituido por 1 o más halo, y alcoxi C₁₋₆ opcionalmente sustituido por 0-3 grupos R^P;

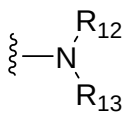
R^P es 0, 1, 2 o 3 grupos, seleccionados de manera independiente de H, halo, -OH, alquilo C₁₋₃, y C=O;

W³ se selecciona de entre fenilo opcionalmente sustituido con alquilo C₁₋₆, un

heteroarilo de 5-10 miembros opcionalmente sustituido con alquilo C₁₋₆, y  ;

R₉ y R₁₀ son seleccionados de manera independiente de hidrógeno, alquilo C₁₋₆, alcoxi C₁₋₆, y haloalquilo C₁₋₆;

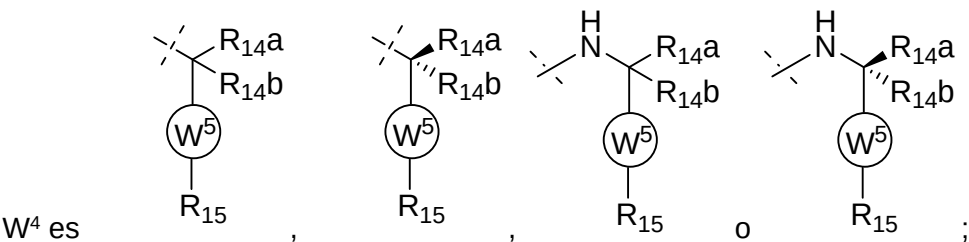
R₁₁ se selecciona de entre heterociclilo de 3-11 miembros, alcoxi C₁₋₆, heteroarilo

de 5-10 miembros, arilo C₆₋₁₀, y  , en donde el heterociclilo, heteroarilo, y arilo son opcionalmente sustituidos con alquilo C₁₋₆;

R₁₂ es H o alquilo C₁₋₆;

R₁₃ es H, alquilo, alquilcarbonilo C₁₋₆, (cicloalquil de 3-11 miembros)alquilcarbonilo C₁₋₆, aralquilcarbonilo C₆₋₁₀, arilcarbonilo C₆₋₁₀, (heterociclilo de 3-11 miembros)carbonilo o aralquilo C₆₋₁₀;

R_{14a} y R_{14b} se seleccionan cada uno de manera independiente de H, haloalquilo C₁₋₆, y alquilo C₁₋₆;



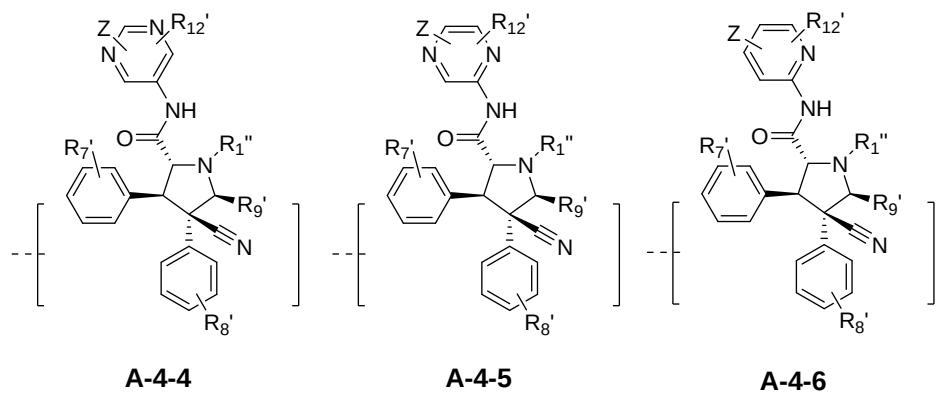
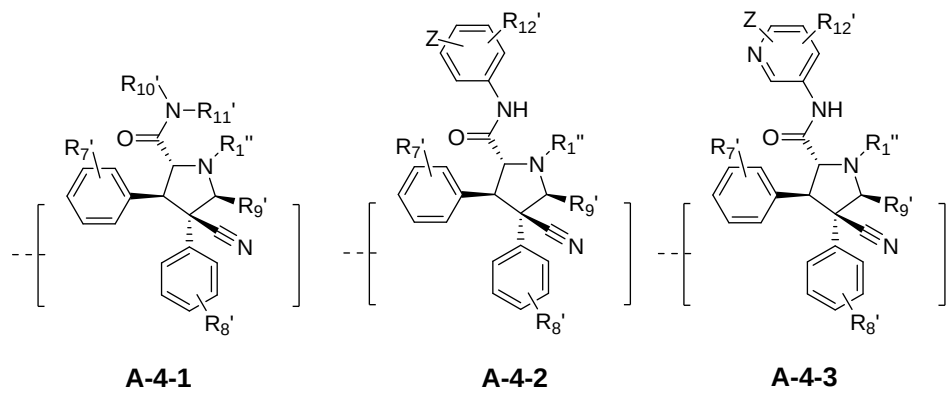
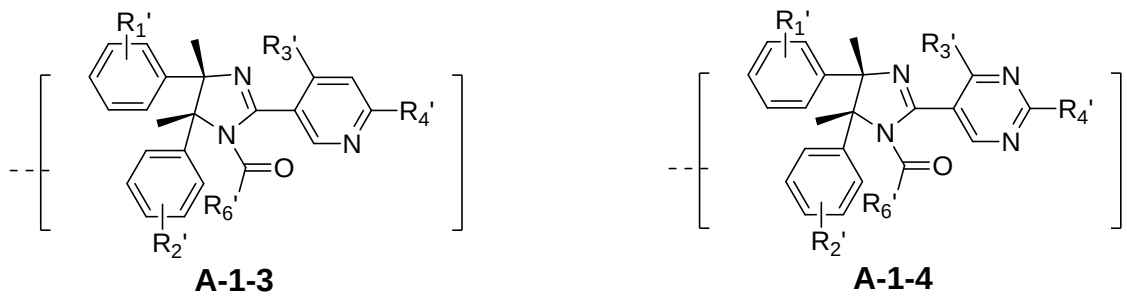
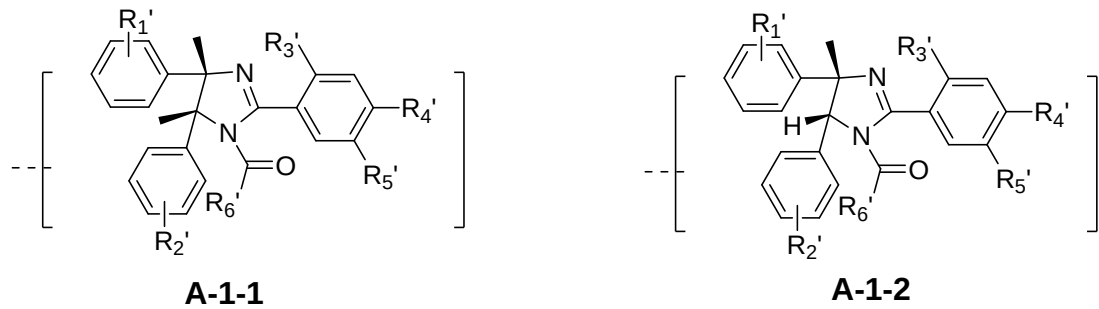
R_{14a} y R_{14b} se seleccionan cada uno de manera independiente de H, haloalquilo C₁₋₆ o alquilo C₁₋₆ opcionalmente sustituido;

W⁵ es un fenilo opcionalmente sustituido o un heteroarilo de 5-10 miembros

opcionalmente sustituido;

R₁₅ se selecciona de entre H, halógeno, CN, OH, NO₂, N R_{14a}R_{14b}, OR_{14a}, CONR_{14a}R_{14b}, NR_{14a}COR_{14b}, SO₂NR_{14a}R_{14b}, NR_{14a} SO₂R_{14b}, alquilo C₁₋₆ opcionalmente sustituido, haloalquilo C₁₋₆ opcionalmente sustituido, haloalcoxi C₁₋₆ opcionalmente sustituido, arilo C₆₋₁₀ opcionalmente sustituido, heteroarilo de 5-10 miembros opcionalmente sustituido, cicloalquilo C₃₋₁₁ opcionalmente sustituido o cicloheteroalquilo de 3-11 miembros opcionalmente sustituido;

o ULM es



donde:

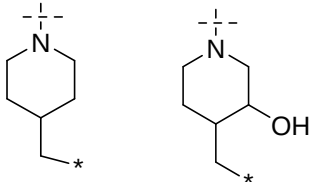
R₁' y R₂' de las Fórmulas A-1-1 a A-1-4 se seleccionan de manera independiente de F, Cl, Br, I, acetileno, CN, CF₃ y NO₂;

R₃' se selecciona de entre -OCH₃, -OCH₂CH₃, -OCH₂CH₂F, -OCH₂CH₂OCH₃ y -OCH(CH₃)₂;

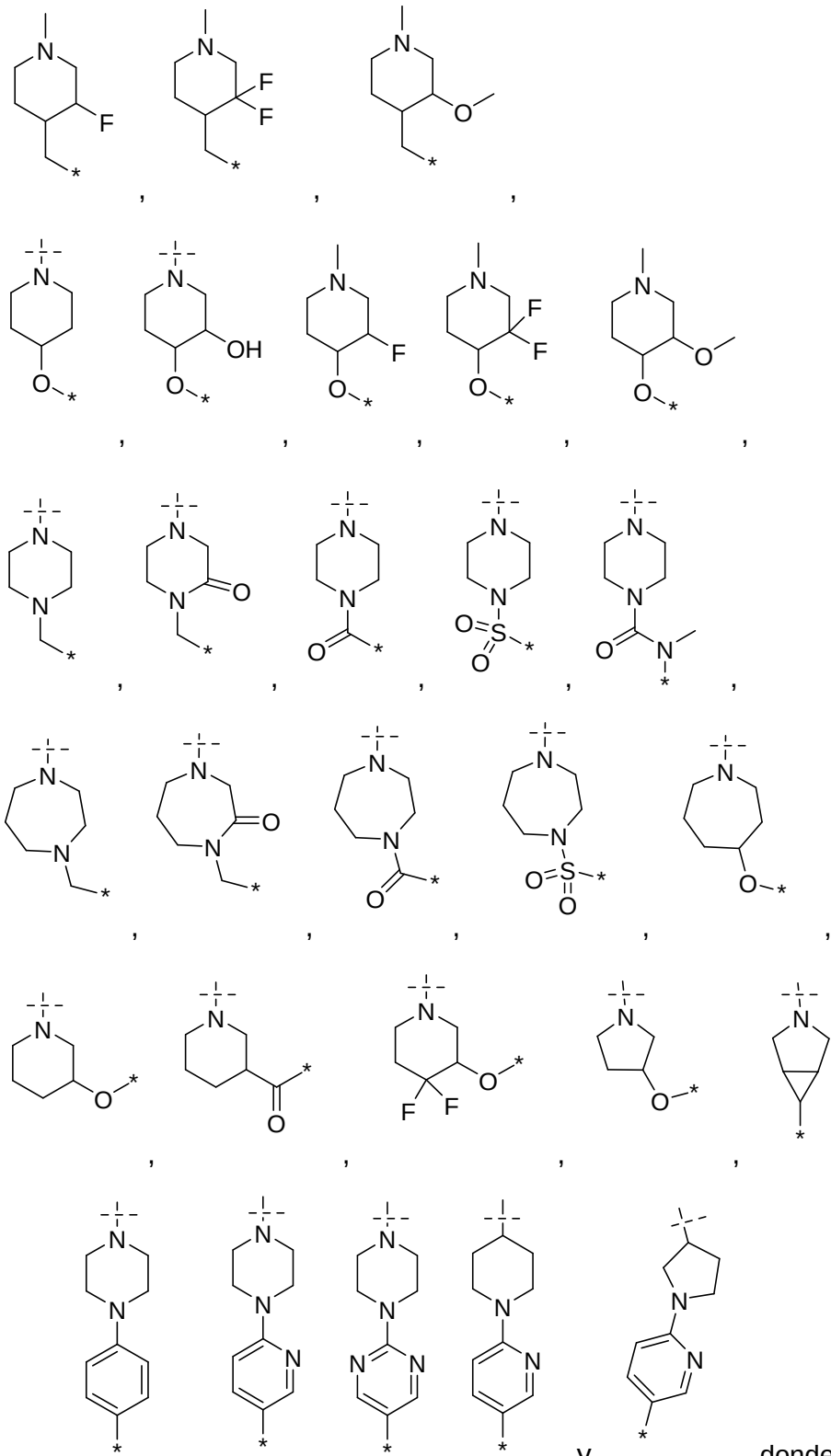
R₄' de las Fórmulas A-1-1 a A-1-4 se selecciona de entre H, halógeno, -CH₃, -CF₃,

-OCH₃, -C(CH₃)₃, -CH(CH₃)₂, -ciclopropilo, -CN, -C(CH₃)₂OH, -C(CH₃)₂OCH₂CH₃, -C(CH₃)₂CH₂OH, -C(CH₃)₂CH₂OCH₂CH₃, -C(CH₃)₂CH₂OCH₂CH₂OH, -C(CH₃)₂CH₂OCH₂CH₃, -C(CH₃)₂CN, -C(CH₃)₂C(O)CH₃, -C(CH₃)₂C(O)NHCH₃, -C(CH₃)₂C(O)N(CH₃)₂, -SCH₃, -SCH₂CH₃, -S(O)₂CH₃, -S(O)₂CH₂CH₃, -NHC(CH₃)₃, -N(CH₃)₂, pirrolidinilo y 4-morfolinilo;

R5' de las Fórmulas A-1-1 a A-1-4 se selecciona de entre halógeno, -ciclopropilo, -S(O)₂CH₃, -S(O)₂CH₂CH₃, 1-pirrolidinilo, -NH₂, -N(CH₃)₂ y -NHC(CH₃)₃; y



R6' de las Fórmulas A-1-1 a A-1-4 se selecciona de entre H,



donde L se une al «*» de

R^{6'} o al átomo del extremo de R^{4'};

R7' de la Fórmula A-4-1 a A-4-6 es uno o más halógenos;

R8' de la Fórmula A-4-1 a A-4-6 es uno o más grupos seleccionados de H, -F, -Cl, -Br, -I, -CN, -NO₂, metoxi, etoxi, isopropoxi, y -OH, alquilo C₁₋₆, alquenilo C₁₋₆, alquinilo C₁₋₆, metoxi, etoxi, isopropoxi, y -OH;

R9' de la Fórmula A-4-1 a A-4-6 se selecciona de entre alquilo, alquilo sustituido, alquenilo, alquenilo sustituido, alquinilo, alquinilo sustituido, arilo, arilo sustituido, hetero arilo, heteroarilo sustituido, cicloalquilo, cicloalquilo sustituido, alquenilo y cicloalquenilo sustituido;

Z de la Fórmula A-4-1 a A-4-6 se selecciona de entre H, -OCH₃, -OCH₂CH₃ y halógeno;

R10' y R11' de la Fórmula A-4-1 a A-4-6 se seleccionan cada uno de manera independiente de H, (CH₂)_n-R', (CH₂)_n-NR'R'', (CH₂)_n-NR'COR'', (CH₂)_n-NR'SO₂R'', (CH₂)_n-COOH, (CH₂)_n-COOR', (CH₂)_n-CONR'R'', (CH₂)_n-OR', (CH₂)_n-SR', (CH₂)_n-SOR', (CH₂)_n-CH(OH)-R', (CH₂)_n-COR', (CH₂)_n-SO₂R', (CH₂)_n-SONR'R'', (CH₂)_n-SO₂NR'R'', (CH₂CH₂O)_m-(CH₂)_n-R', (CH₂CH₂O)_m-(CH₂)_n-OH, (CH₂CH₂O)_m-(CH₂)_n-OR', (CH₂CH₂O)_m-(CH₂)_n-NR'R'', (CH₂CH₂O)_m-(CH₂)_n-NR'COR'', (CH₂CH₂O)_m-(CH₂)_n-NR'SO₂R'', (CH₂CH₂O)_m-(CH₂)_n-COOH, (CH₂CH₂O)_m-(CH₂)_n-COOR', (CH₂CH₂O)_m-(CH₂)_n-CONR'R'', (CH₂CH₂O)_m-(CH₂)_n-SO₂R', (CH₂CH₂O)_m-(CH₂)_n-COR', (CH₂CH₂O)_m-(CH₂)_n-SONR'R'', (CH₂CH₂O)_m-(CH₂)_n-SO₂NR'R'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_nR', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-OH, (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-OR', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-NR'R'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-NR'COR'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-NR'SO₂R'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-COOH, (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-COOR', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-CONR'R'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-SO₂R', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-COR', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-SONR'R'', (CH₂)_p-(CH₂CH₂O)_m-(CH₂)_n-SO₂NR'R'', arilo-(CH₂)_n-COOH y heteroarilo-alquilo-CO-alquilo-NR'R''^m, donde el alquilo es opcionalmente sustituido con OR' y heteroarilo-(CH₂)_n-heterociclo donde el heterociclo es opcionalmente sustituido con alquilo, hidroxilo, COOR' y COR'; donde R' y R'' se seleccionan de entre H, alquilo, alquilo sustituido con halógeno, hidroxilo, NH₂, NH(alquilo), N(alquilo)₂, oxo, carboxi, cicloalquilo y heteroarilo;

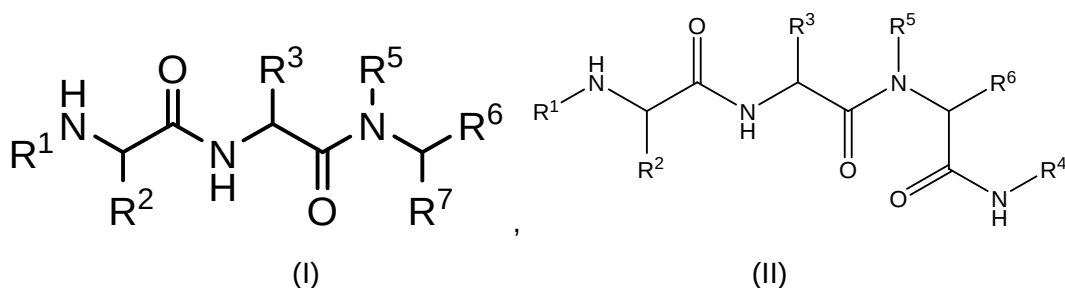
m, n y p son de manera independiente de 0 a 6;

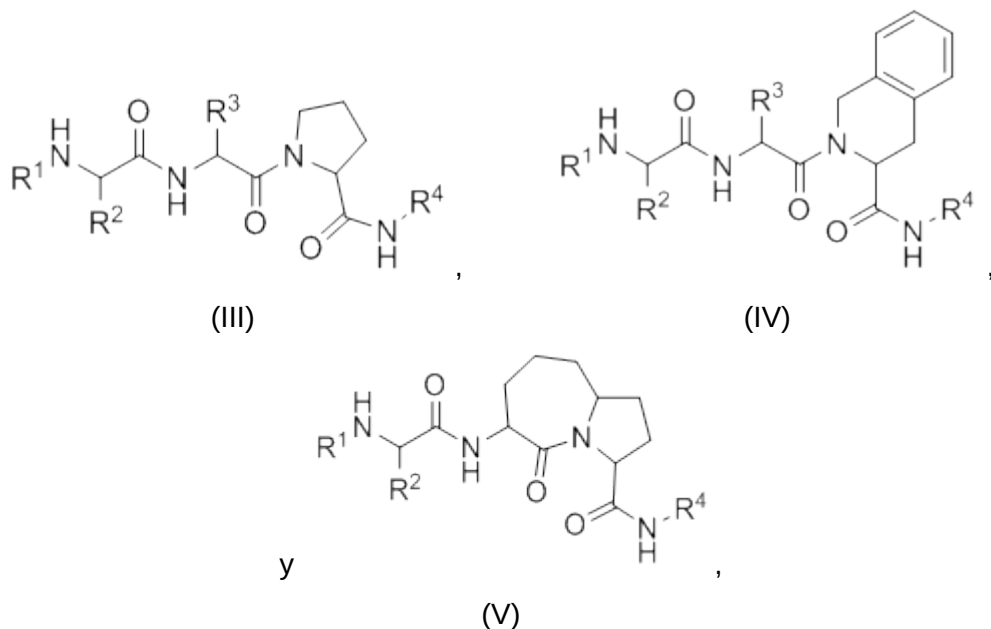
R12' de la Fórmula A-4-1 a A-4-6 se selecciona de entre -O-(alquilo), -O-(alquilo)-acoxi, -C(O)-(alquilo), -C(OH)-alquilo-alcoxi, -C(O)-NH-(alquilo), -C(O)-N-(alquilo)₂, -S(O)-(alquilo), S(O)₂-(alquilo), -C(O)-(amino cíclico) y -O-arilo-(alquilo), -O-arilo-(alcoxi);

R1'' de la Fórmula A-4-1 a A-4-6 se selecciona dentro del grupo que consiste en H, alquilo, alquilo sustituido con arilo, alquilo sustituido con aloxi, cicloalquilo, cicloalquilo sustituido con ari, y cicloalquilo sustituido con alcoxi; y

----- indica conexión con L;

o ULM se selecciona de entre:





en donde:

R¹ para las Fórmulas (I), (II), (III), (IV) y (V) es H o alquilo;

R² para las Fórmulas (I), (II), (III), (IV) y (V) es H o alquilo;

R³ para las Fórmulas (I), (II), (III), (IV) y (V) se selecciona de entre H, alquilo, cicloalquilo y heterocicloalquilo;

R⁵ y R⁶ para las Fórmulas (I), (II), (III), (IV) y (V) se seleccionan de manera independiente de entre H, alquilo, cicloalquilo, heterocicloalquilo, o R⁵ y R⁶ tomados juntos para las Fórmulas (I), (II), (III), (IV) y (V) forman un anillo pirrolidina o piperidina opcionalmente fusionado de manera adicional a 1-2 anillos cicloalquilo, heterocicloalquilo, arilo o heteroarilo, cada uno de los cuales puede fusionarse de manera adicional a otro anillo cicloalquilo, heterocicloalquilo, arilo o heteroarilo;

R³ y R⁵ para las Fórmulas (I), (II), (III), (IV) y (V) tomados juntos pueden formar un anillo de 5-8 miembros opcionalmente fusionado de manera adicional a 1-2 anillos cicloalquilo, heterocicloalquilo, arilo o heteroarilo;

R⁷ para las Fórmulas (I), (II), (III), (IV) y (V) se selecciona de entre cicloalquilo, cicloalquilalquilo, heterocicloalquilo, heterocicloalquilalquilo, arilo, arilo-C(O)-R⁴, arilalquilo, heteroarilo, heteroarilo-C(O)-R⁴, heteroarilo-R⁴, heteroarilo-naftaleno, heteroarilalquilo o -C(O)NH-R⁴, cada uno de los cuales opcionalmente se sustituye de manera adicional con 1-3 sustituyentes que se seleccionan de entre halógeno, alquilo, haloalquilo, hidroxilo, alcoxi, ciano, (hetero)cicloalquilo, arilo, (hetero)arilo, -C(O)NH-R⁴ o C(O)-R⁴; y

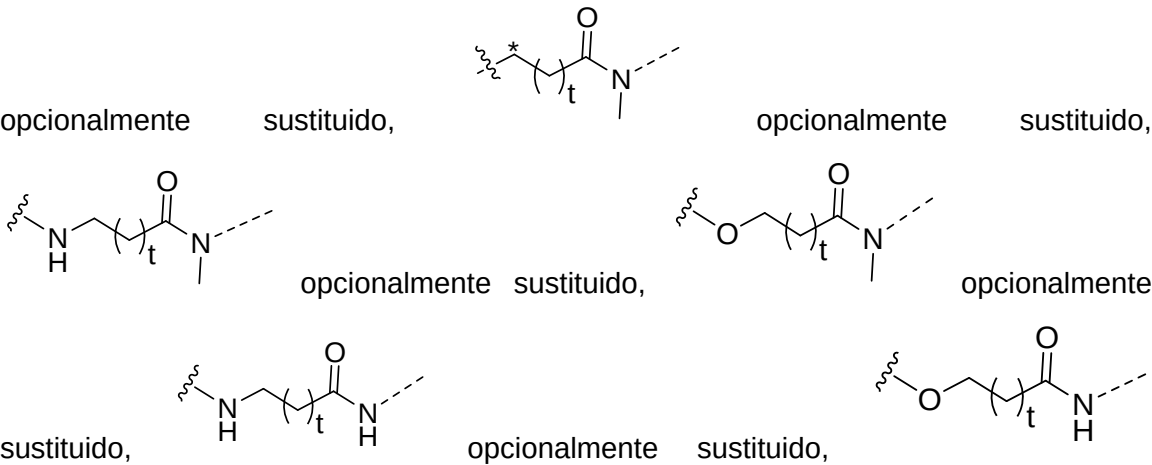
R⁴ se selecciona de entre alquilo, cicloalquilo, heterocicloalquilo, cicloalquilalquilo, heterocicloalquilalquilo, arilo o arilo bicíclico, arilalquilo, heteroarilo o heteroarilo bicíclico, heteroarilalquilo, opcionalmente sustituido de manera adicional;

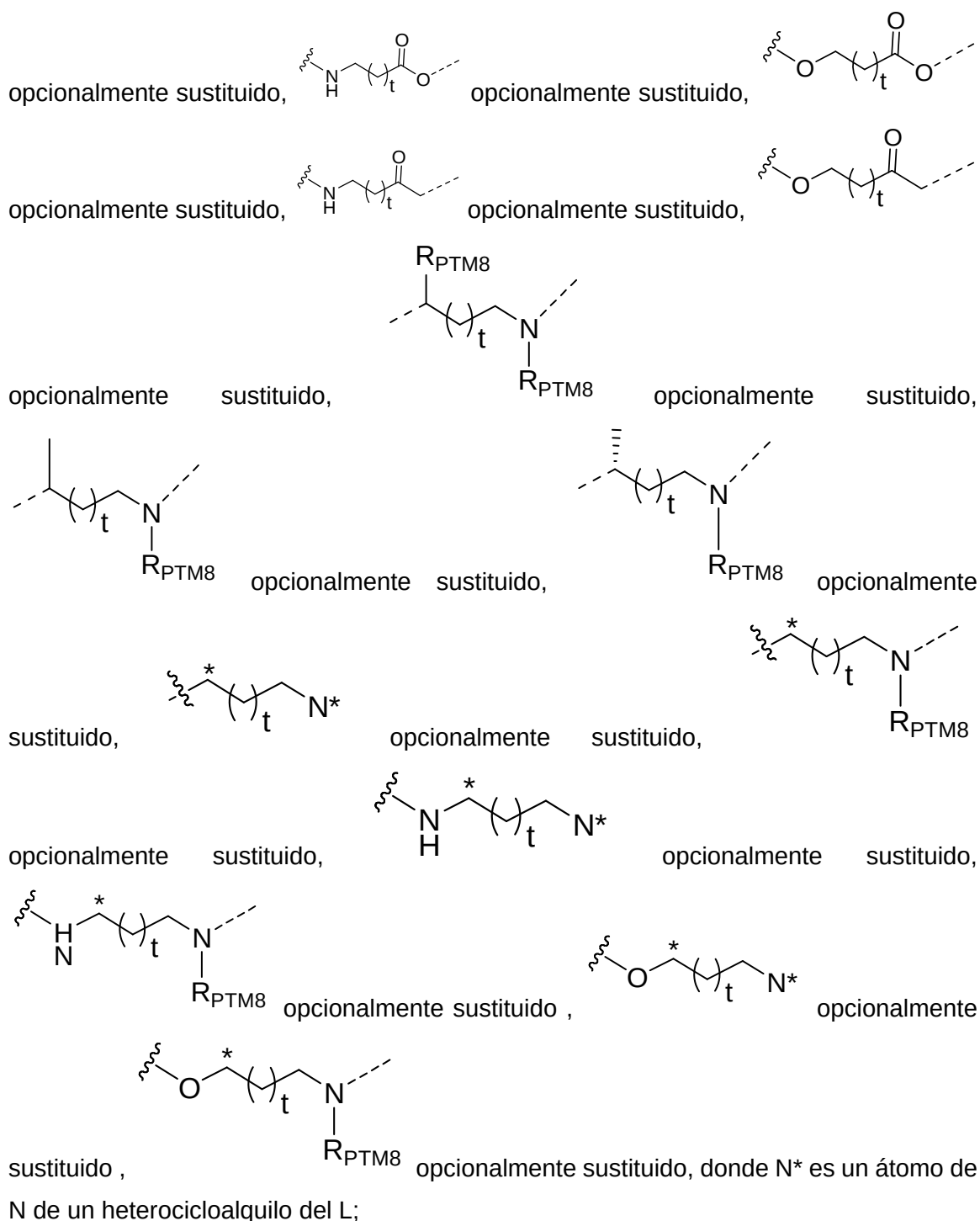
PTM se selecciona de entre:



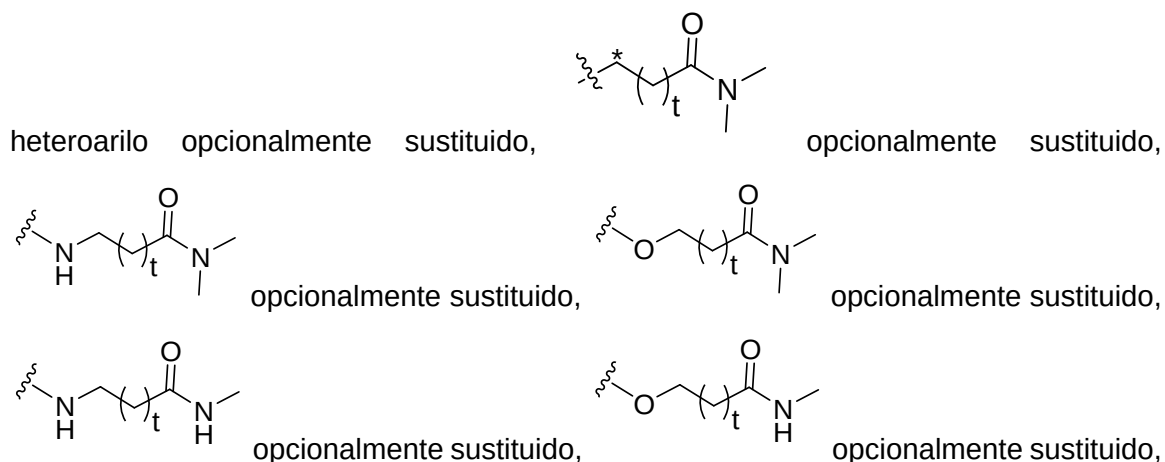
W_{PTM} se selecciona de entre cicloalquilo C₃₋₆ opcionalmente sustituido, heteroalquilo opcionalmente sustituido, heterocicloalquilo de 3-6 miembros opcionalmente sustituido, arilo opcionalmente sustituido, heteroarilo opcionalmente sustituido;

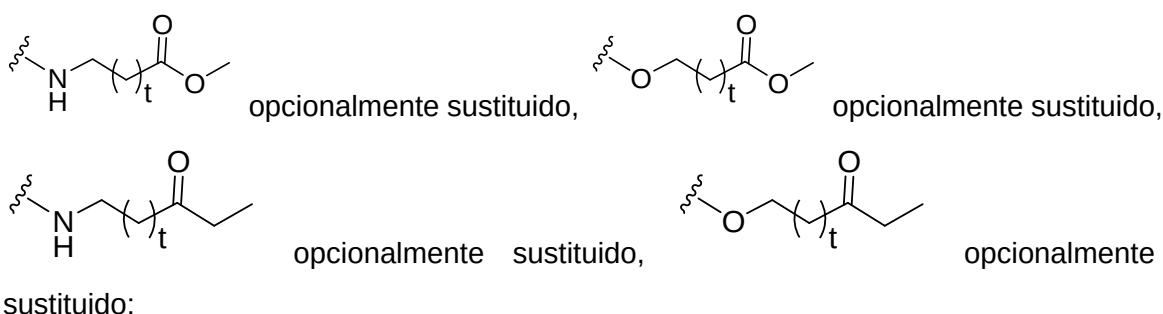
R_{PTM1A} es NR_{PTM9}R_{PTM10}, OR_{PTM9}R_{PTM10}, H, alquilo opcionalmente sustituido, alcoxilo opcionalmente sustituido, cicloalquilo C₃₋₆ opcionalmente sustituido, O-(cicloalquilo C₃₋₆) opcionalmente sustituido, -O-alquilo C₁₋₄ -cicloalquilo C₃₋₆ opcionalmente sustituido, heteroalquilo C₃₋₆ opcionalmente sustituido, O-(heteroalquilo C₃₋₆) opcionalmente sustituido, O-alquilo C₁₋₄-heteroalquilo C₃₋₆opcionalmente sustituido, O-alquilo C₁₋₄-heterocicloalquilo C₃₋₆ opcionalmente sustituido, arilo opcionalmente sustituido, O-arilo opcionalmente sustituido, heteroarilo opcionalmente sustituido, , O-heteroarilo





R_{PTM1B} es $NR_{PTM9}R_{PTM10}$, $OR_{PTM9}R_{PTM10}$, H, alquilo opcionalmente sustituido, O-alquilo opcionalmente sustituido, cicloalquilo C_{3-6} opcionalmente sustituido, O-(cicloalquilo C_{3-6}) opcionalmente sustituido, -O-alquilo C_{1-4} -cicloalquilo C_{3-6} opcionalmente sustituido, heteroalquilo C_{3-6} opcionalmente sustituido, O-(heteroalquilo C_{3-6}) opcionalmente sustituido, O-alquilo C_{1-4} -heteroalquilo C_{3-6} opcionalmente sustituido, arilo opcionalmente sustituido, O-arilo opcionalmente sustituido, heteroarilo opcionalmente sustituido, O-





R_{PTM9} y R_{PTM10} son cada uno de manera independiente H, alquilo C_{1-6} opcionalmente sustituido, amino alifático opcionalmente sustituida, amido alifático opcionalmente sustituida;

R_{PTM2} es H, $(C=O)R_{PTM2'}$, alquilo opcionalmente sustituido;

$R_{PTM2'}$ es alquilo opcionalmente sustituido, alqueno opcionalmente sustituido, -N $(R_{PTM8})_2$ o $-C(OH)_2$;

R_{PTM3} es alquilo, alcoxi, fenilo o naftaleno, cada uno sustituido de manera independiente con OH, H, o halógeno;

R_{PTM4A} es OH, H, halógeno, o alquilo C_{1-6} opcionalmente sustituido;

R_{PTM4B} es OH, H, $-CH_2CN$, halógeno, alquilo C_{1-6} opcionalmente sustituido;

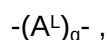
R_{PTM5} se selecciona de arilo opcionalmente sustituido, biarilo opcionalmente sustituido, heteroarilo opcionalmente sustituido, biheteroarilo opcionalmente sustituido, cicloalquilo C_{3-6} opcionalmente sustituido, cicloheteroalquilo de 3-6 miembros opcionalmente sustituido, halógeno, H, alquilo opcionalmente sustituido, OH y alcoxi;

R_{PTM8} es un H o alquilo;

t es 0, 1, 2, 3, 4, 5, 6; y

— indica el sitio de unión de L; y

L es:



donde:

$(A^L)_q$ es un grupo que se conecta con al menos uno de un ULM, PTM, o ambos;

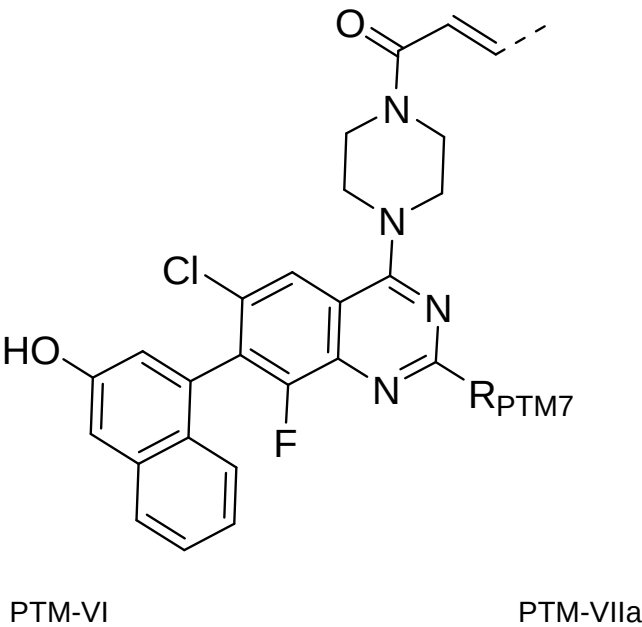
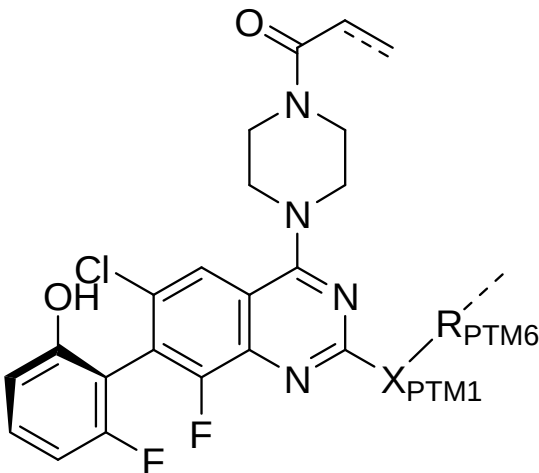
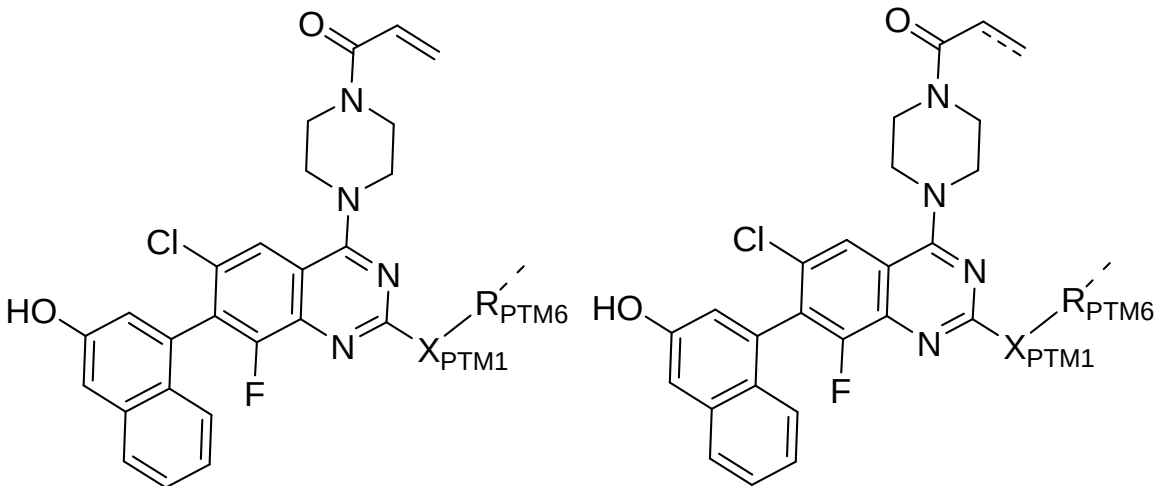
q es un número entero mayor o igual que 1;

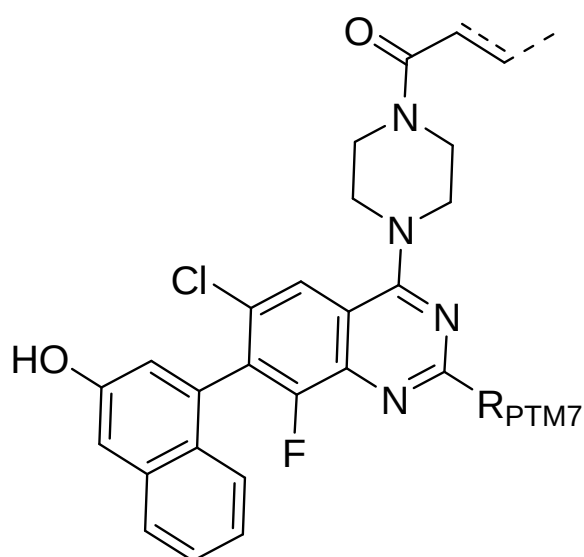
cada A^L se selecciona de manera independiente de entre un enlace, $CR^{L1}R^{L2}$, O, S, SO, SO_2 , NR^{L3} , SO_2NR^{L3} , $SONR^{L3}$, $CONR^{L3}$, $NR^{L3}CONR^{L4}$, $NR^{L3}SO_2NR^{L4}$, CO, $CR^{L1}=CR^{L2}$, $C\equiv C$, $SiR^{L1}R^{L2}$, $P(O)R^{L1}$, $P(O)OR^{L1}$, $NR^{L3}C(=NCN)NR^{L4}$, $NR^{L3}C(=NCN)$, $NR^{L3}C(=CNO_2)NR^{L4}$, cicloalquilo C_{3-11} opcionalmente sustituido con 0-6 grupos R^{L1} y/o R^{L2} , heterociclilo C_{3-11} opcionalmente sustituido con 0-6 grupos R^{L1} y/o R^{L2} , arilo opcionalmente sustituido con 0-6 grupos R^{L1} y/o R^{L2} , heteroarilo opcionalmente sustituido con 0-6 grupos R^{L1} y/o R^{L2} , donde R^{L1} o R^{L2} , cada uno de manera independiente se enlaza opcionalmente a otros grupos para formar un resto cicloalquilo y/o heterociclilo, opcionalmente sustituido con 0-4 grupos R^{L5} ; y

R^{L1} , R^{L2} , R^{L3} , R^{L4} y R^{L5} son, cada uno de manera independiente, H, halo, alquilo C_{1-8} , Oalquilo C_{1-8} , Salquilo C_{1-8} , NHalquilo C_{1-8} , N(alquilo C_{1-8})₂, cicloalquilo C_{3-11} , arilo, heteroarilo, heterociclilo C_{3-11} , Ocicloalquilo C_{1-8} , Scicloalquilo C_{1-8} , NHcicloalquilo C_{1-8} , N(cicloalquilo C_{1-8})₂, N(cicloalquilo C_{1-8})(alquilo C_{1-8}), OH, NH_2 , SH, SO_2 alquilo C_{1-8} , $P(O)$ (Oalquilo C_{1-8})(alquilo C_{1-8}), $P(O)$ (Oalquilo C_{1-8})₂, CC-alquilo C_{1-8} , CCH, $CH=CH$ (alquilo C_{1-8}), C (alquilo C_{1-8})= CH (alquilo C_{1-8}), C (alquilo C_{1-8})= C (alquilo C_{1-8})₂, $Si(OH)_3$, Si (alquilo C_{1-8})₃, $Si(OH)$ (alquilo C_{1-8})₂, COalquilo C_{1-8} , CO_2H , halógeno, CN, CF_3 ,

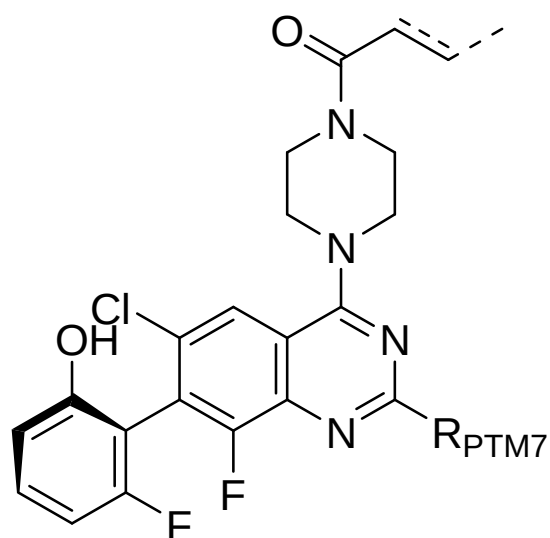
CHF₂, CH₂F, NO₂, SF₅, SO₂NHalquilo C₁₋₈, SO₂N(alquilo C₁₋₈)₂, SONHalquilo C₁₋₈, SON(alquilo C₁₋₈)₂, CONHalquilo C₁₋₈, CON(alquilo C₁₋₈)₂, N(alquilo C₁₋₈)CONH(alquilo C₁₋₈), N(alquilo C₁₋₈)CON(alquilo C₁₋₈)₂, NHCONH(alquilo C₁₋₈), NHCON(alquilo C₁₋₈)₂, NHCONH₂, N(alquilo C₁₋₈)SO₂NH(alquilo C₁₋₈), N(alquilo C₁₋₈) SO₂N(alquilo C₁₋₈)₂, NH SO₂NH(alquilo C₁₋₈), NH SO₂N(alquilo C₁₋₈)₂, y NH SO₂NH₂.

2. El compuesto bifuncional de acuerdo con la reivindicación 1, donde el PTM es representado por:

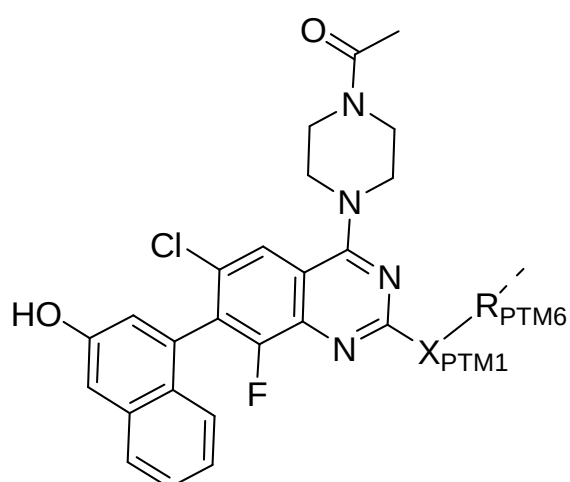




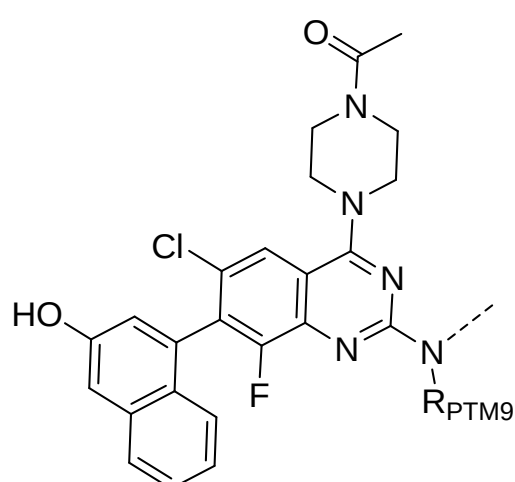
PTM-VIIb



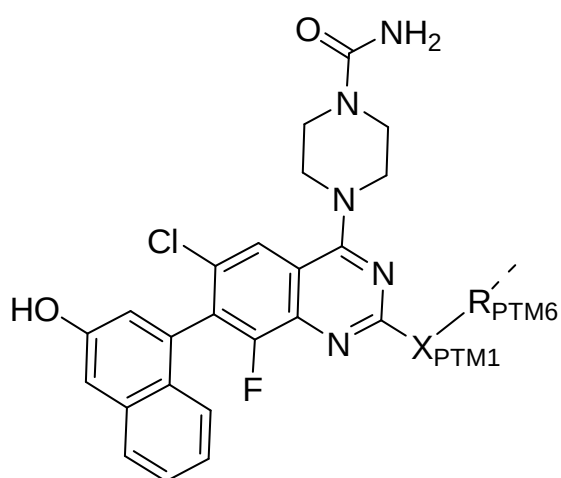
PTM-VIII



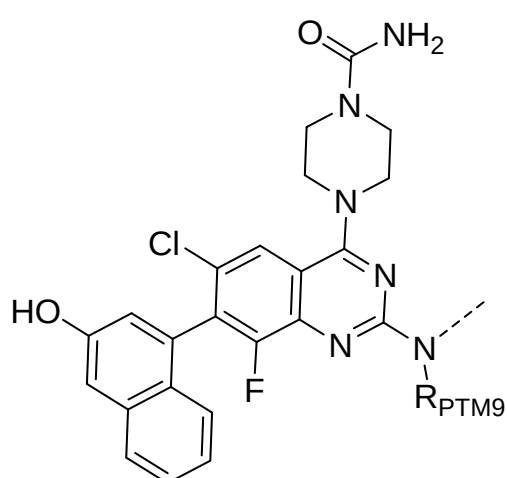
PTM-IXa



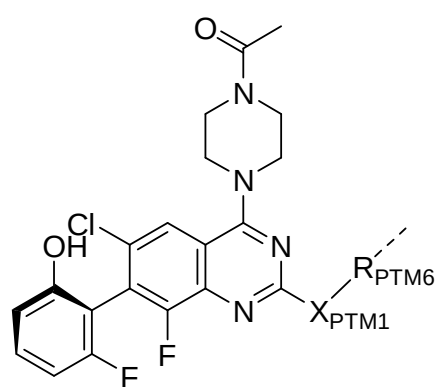
PTM-I-Xb



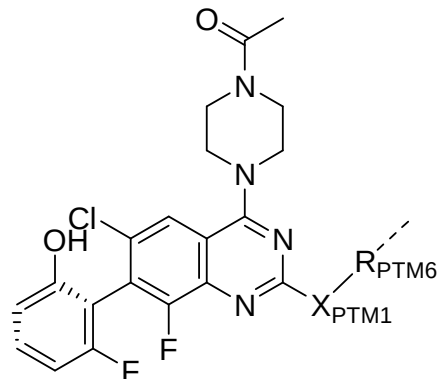
PTM-Xa



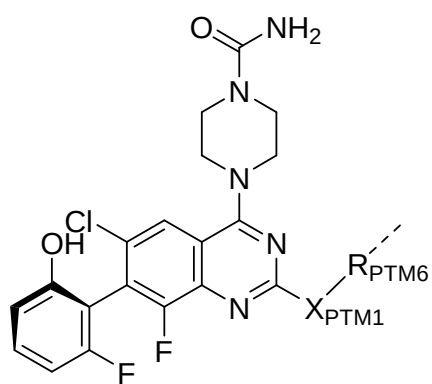
PTM-Xb



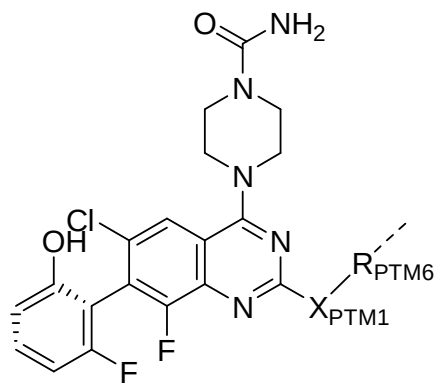
PTM-XI



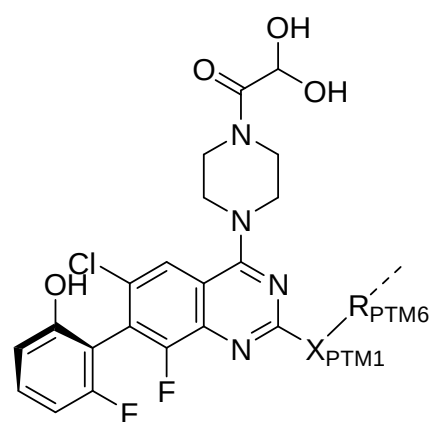
PTM-XII



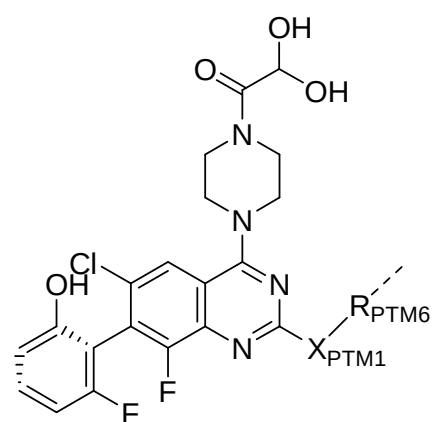
PTM-XIII



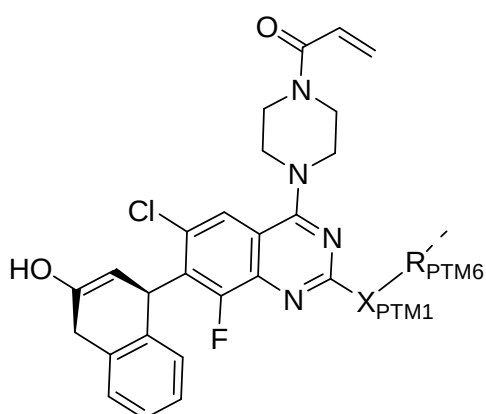
PTM-XIV



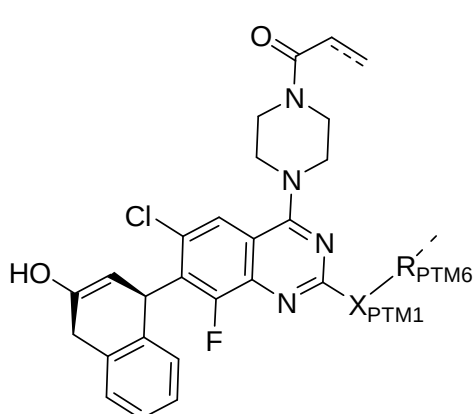
PTM-XV



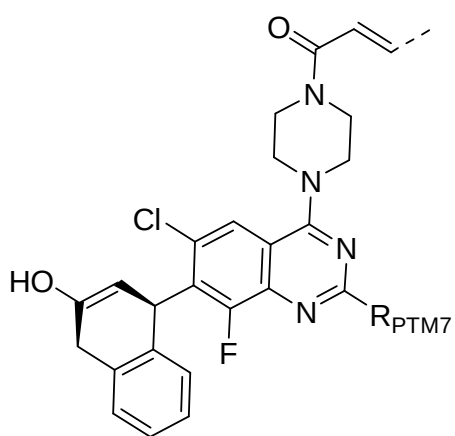
PTM-XVI



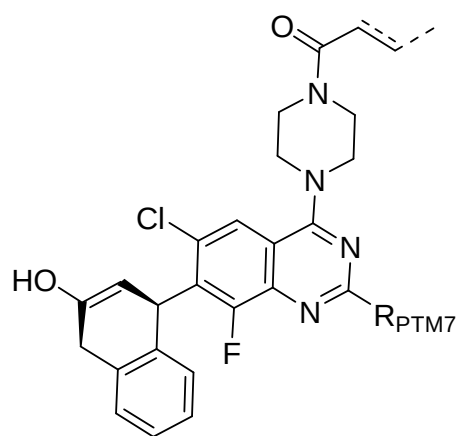
PTM-XVIIa



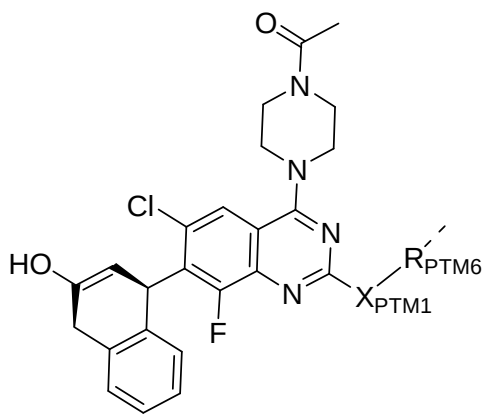
PTM-XVIIb



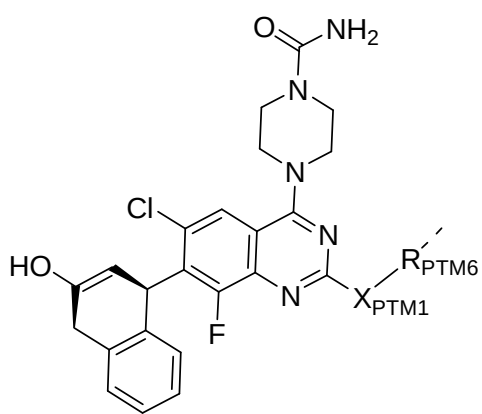
PTM-XVIII



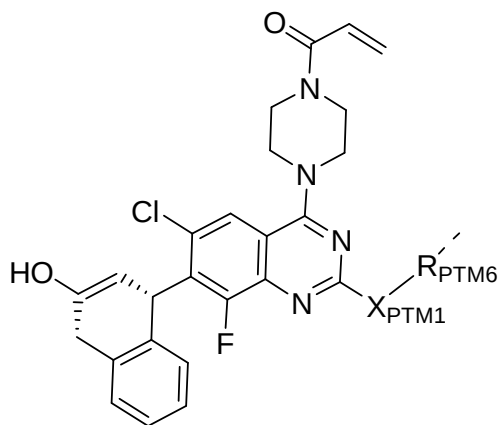
PTM-XIV



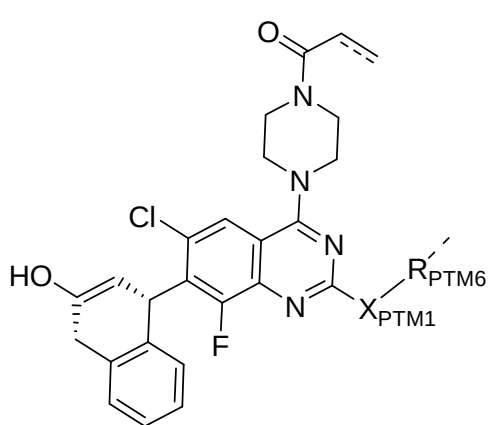
PTM-XV



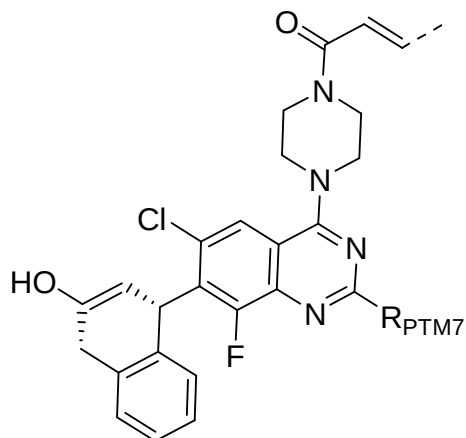
PTM-XVI



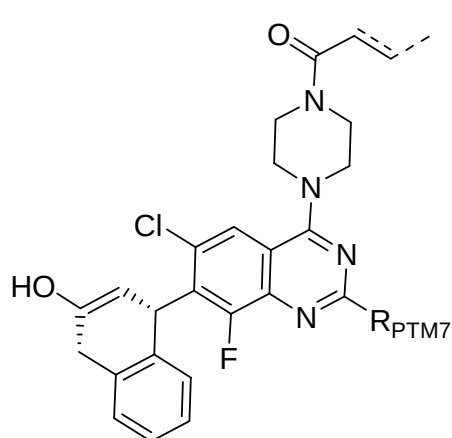
PTM-XVIIa



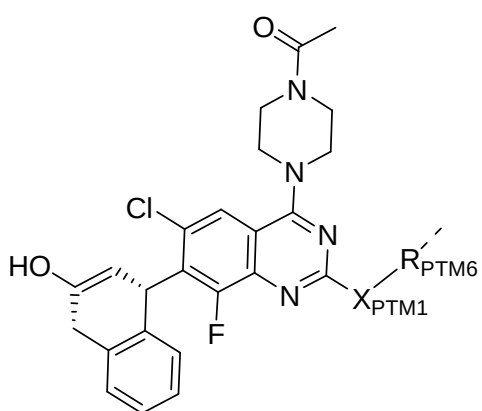
PTMXVIIb



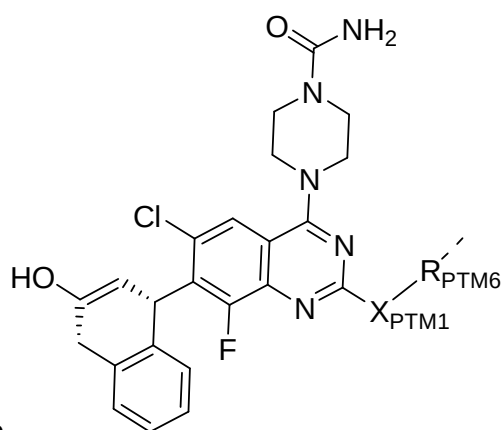
PTM-XVIII



PTM-XIX



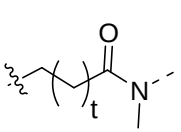
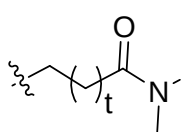
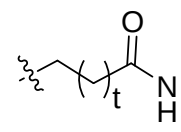
PTM-XX

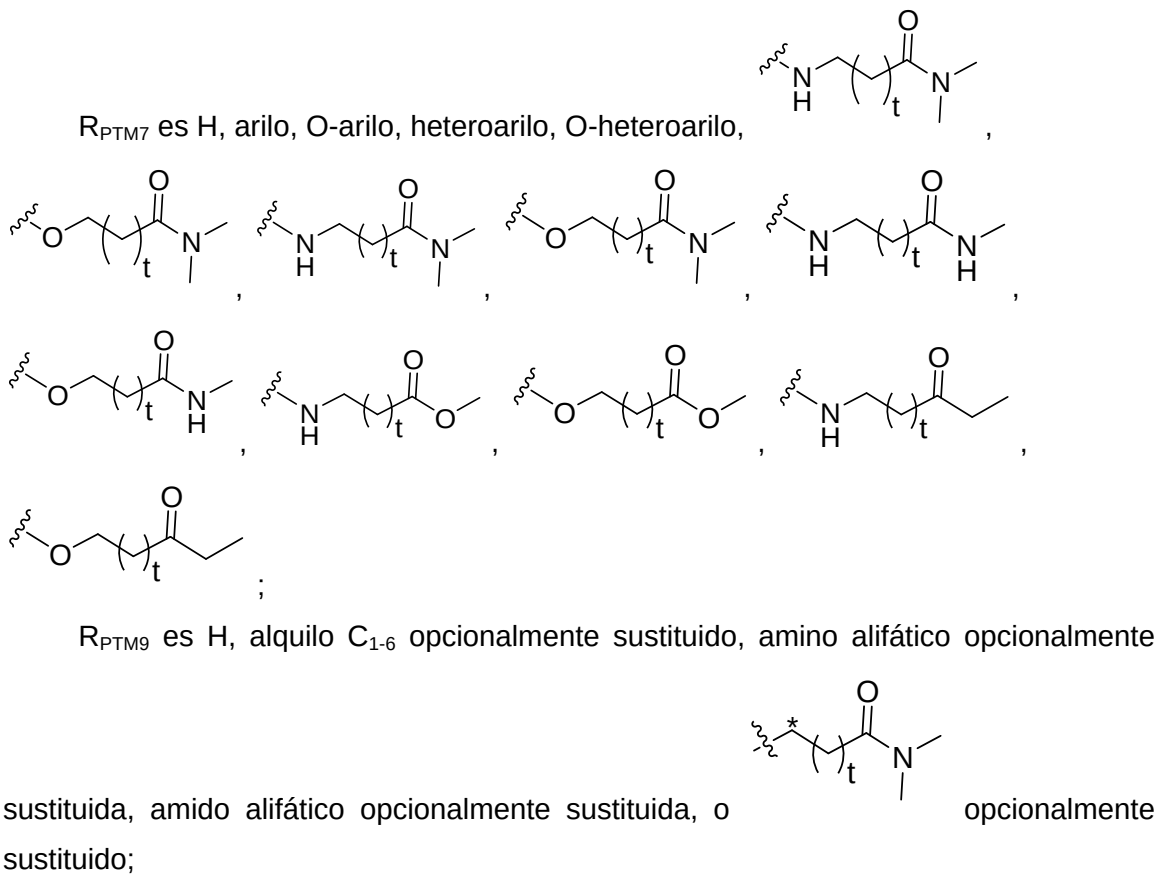
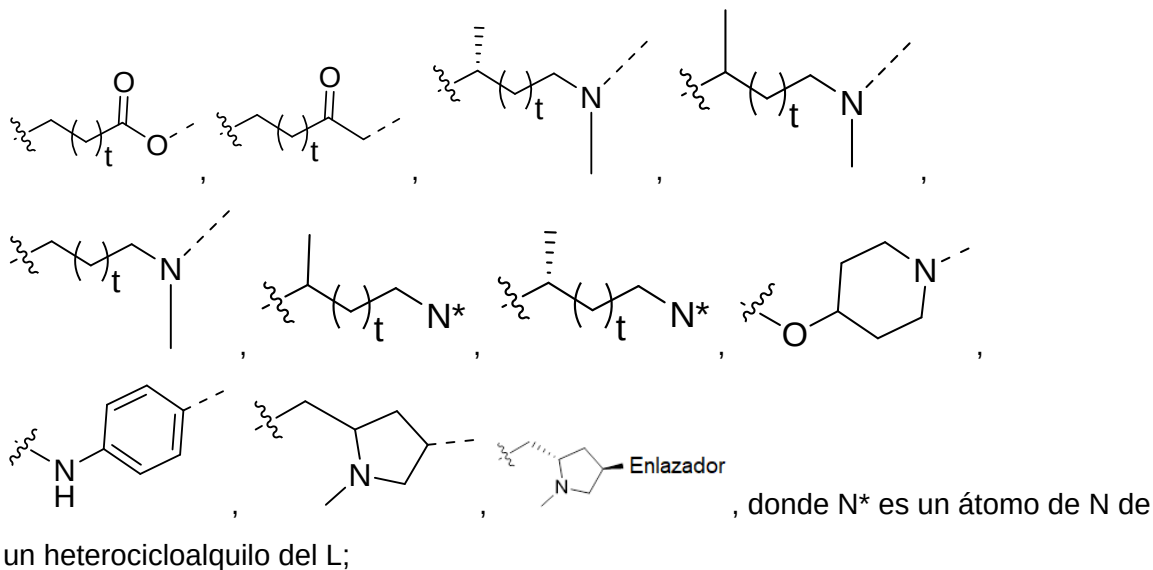


PTM-XXI

donde:

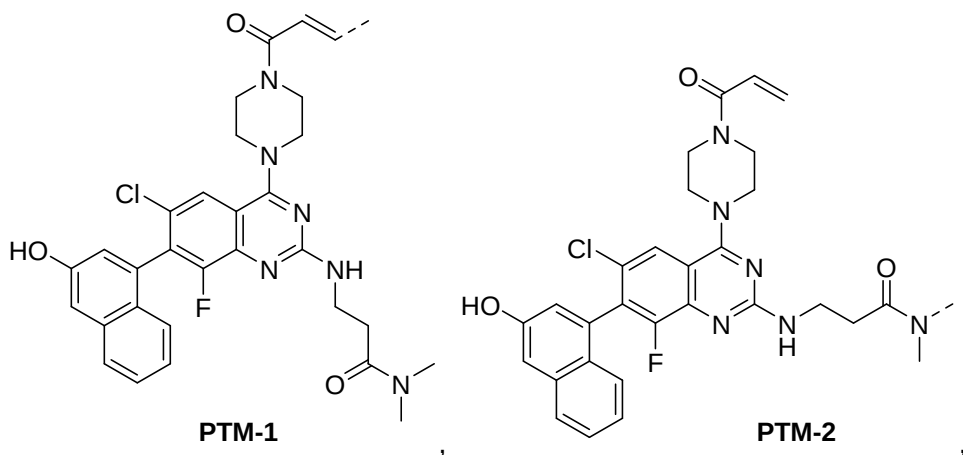
X_{PTM1} es NH u O;

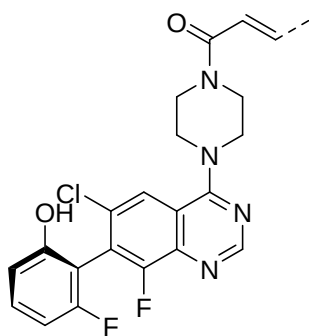
R_{PTM6} es arilo, heteroarilo, , , ,



puede ser un enlace simple o un enlace doble; y
 indica el sitio de unión del L.

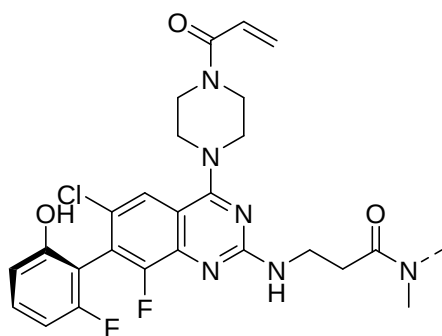
3. El compuesto bifuncional de acuerdo con cualquiera de la reivindicación 1 o reivindicación 2, donde el PTM es representado por la estructura química:





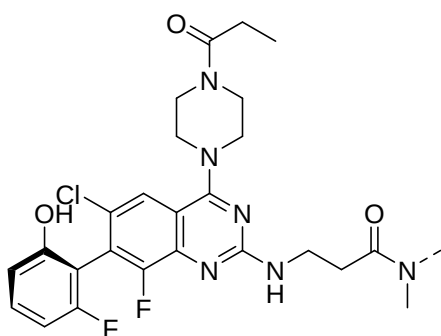
PTM-3

,



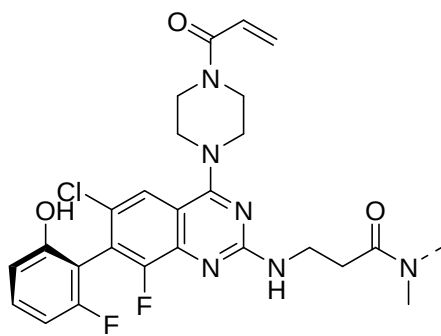
PTM-4

,



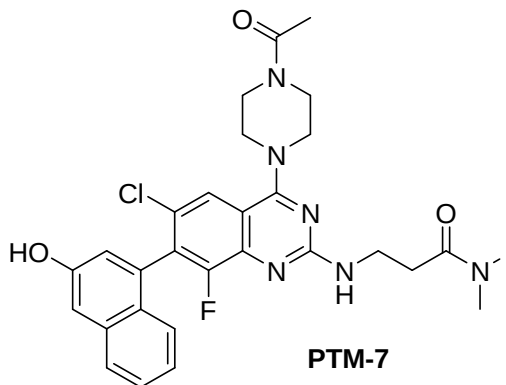
PTM-5

,



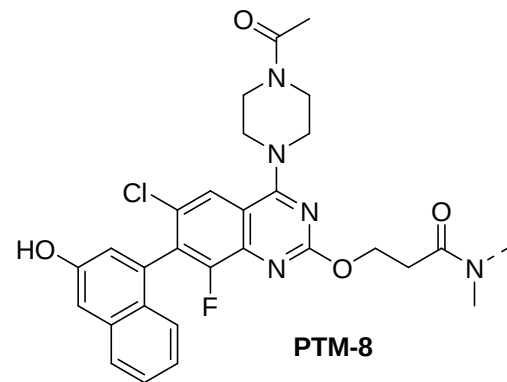
PTM-6

,



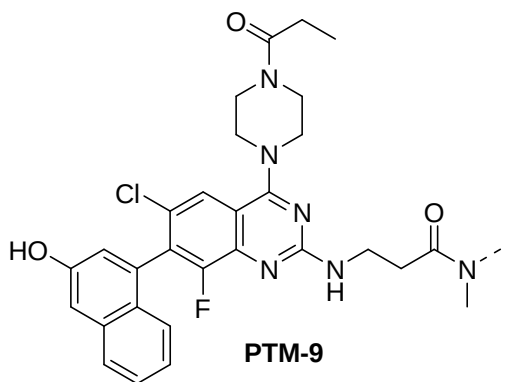
PTM-7

,



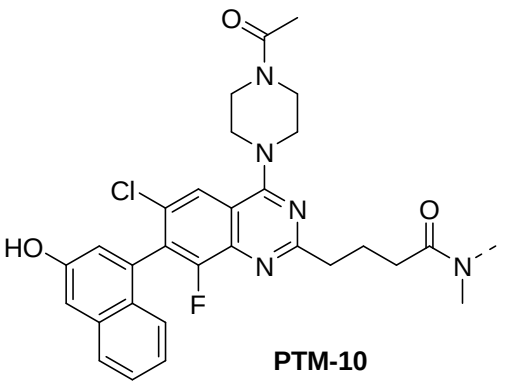
PTM-8

,



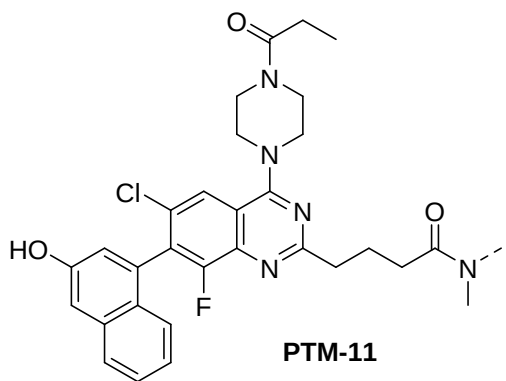
PTM-9

,



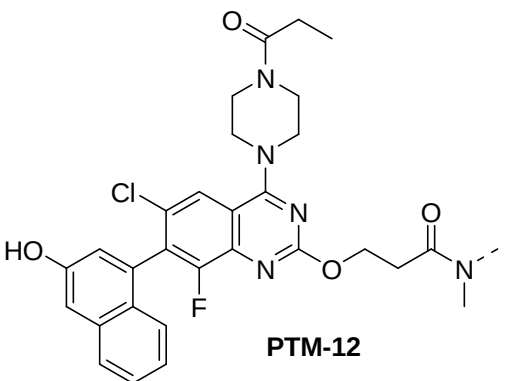
PTM-10

,



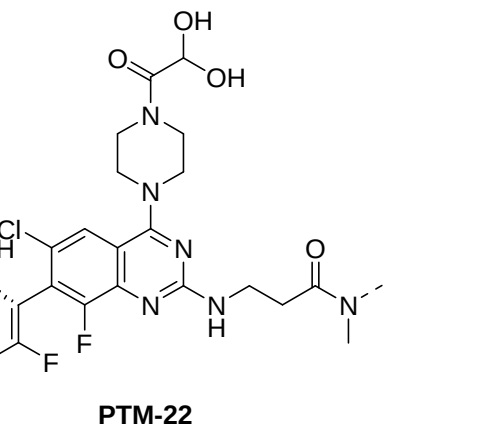
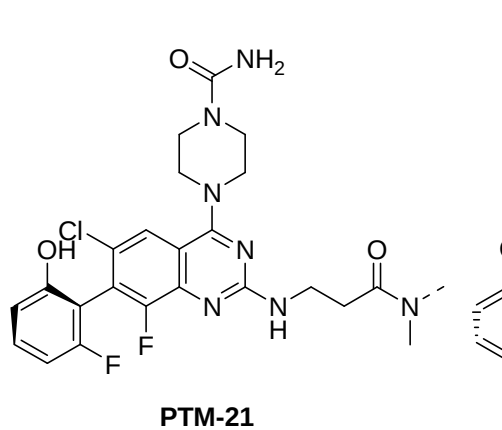
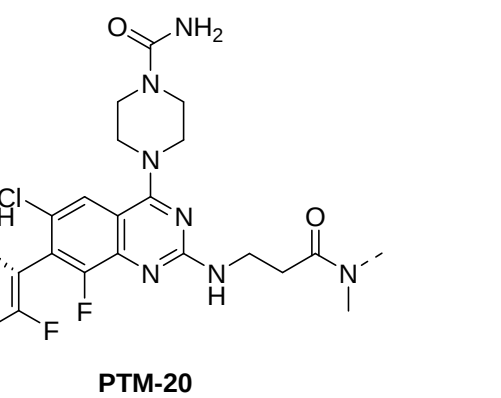
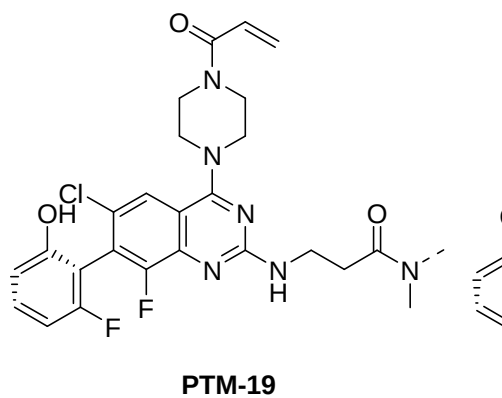
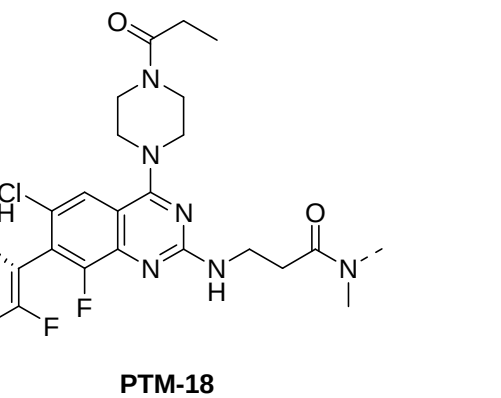
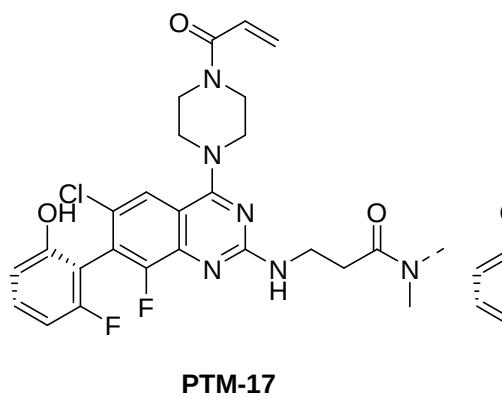
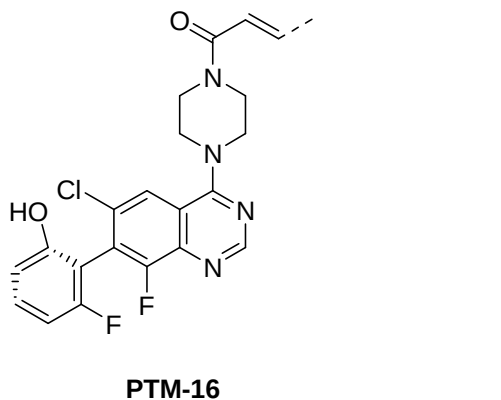
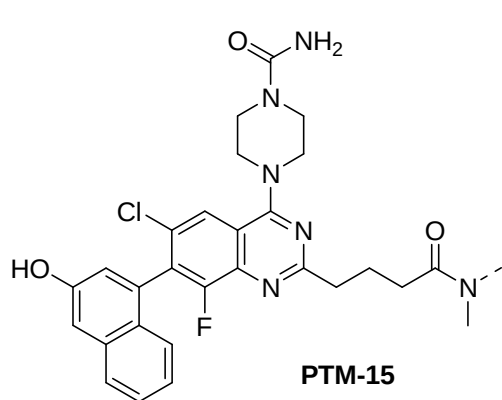
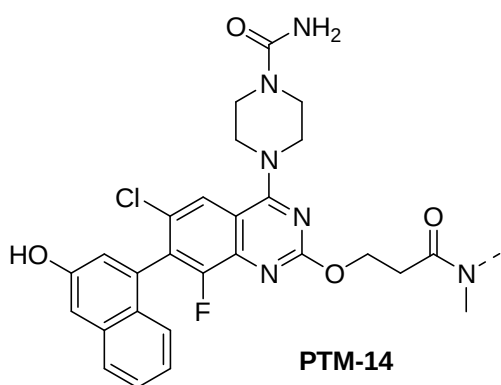
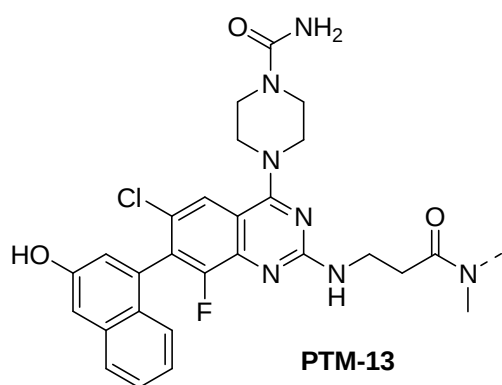
PTM-11

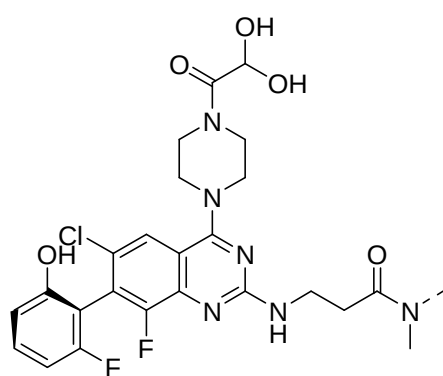
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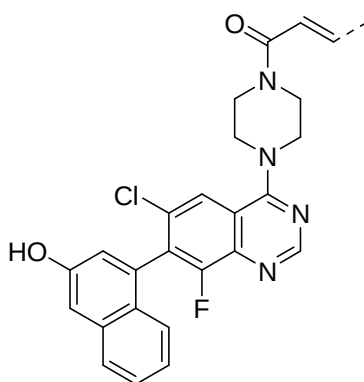
PTM-12

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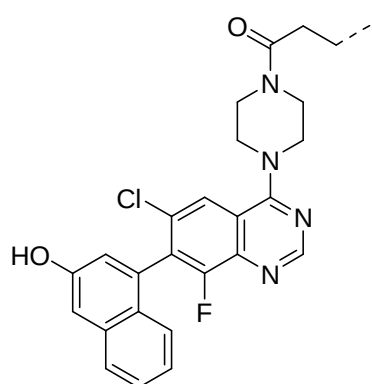




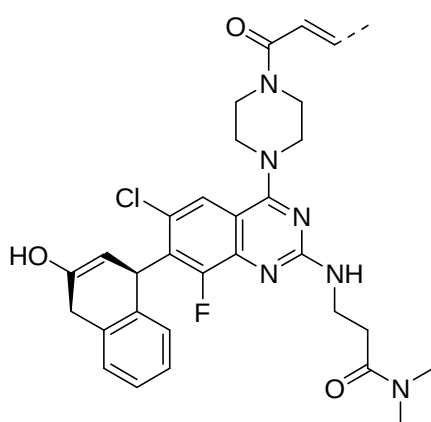
PTM-23



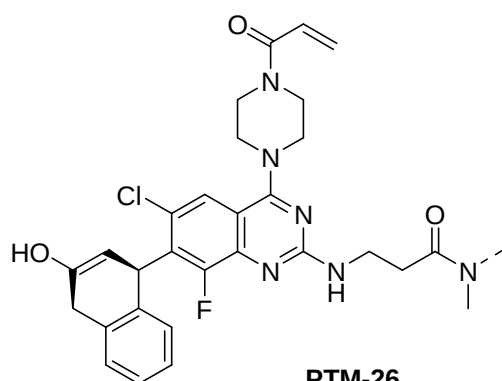
PTM-23



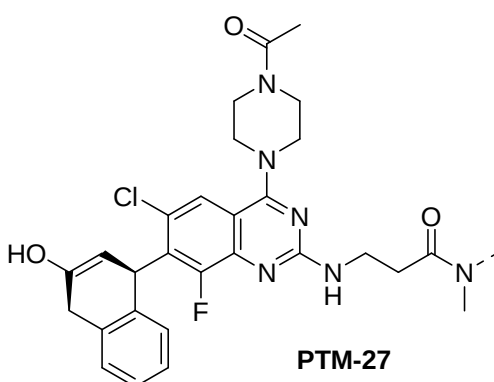
PTM-24



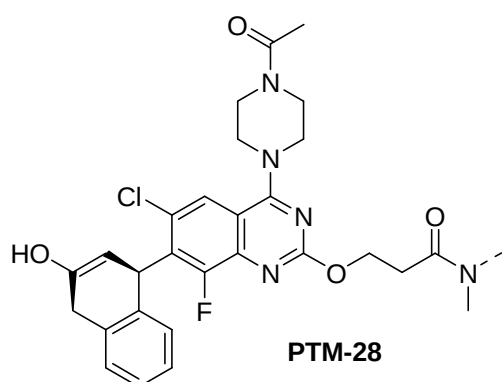
PTM-25



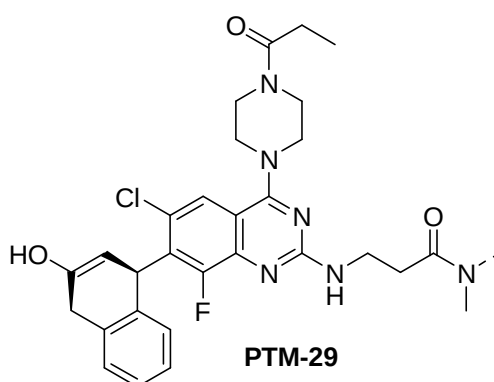
PTM-26



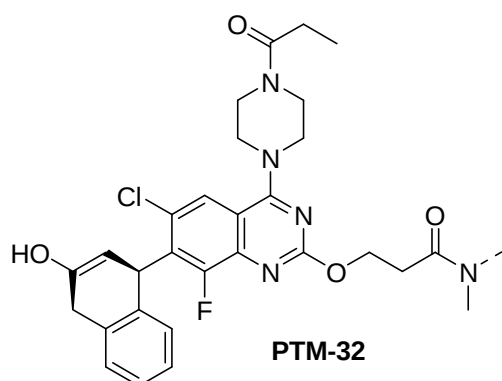
PTM-27



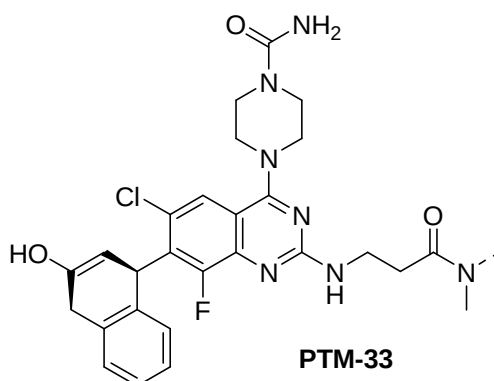
PTM-28



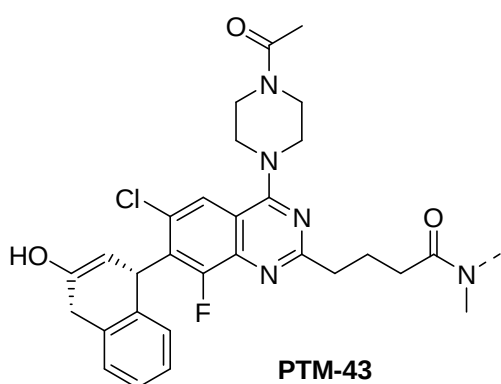
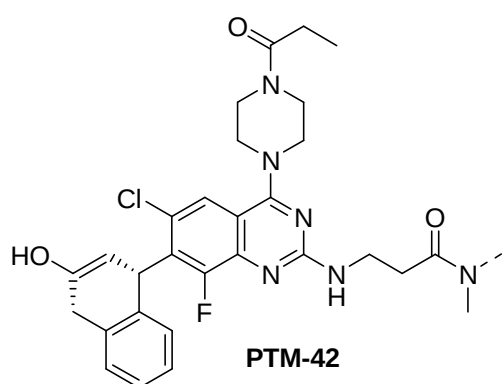
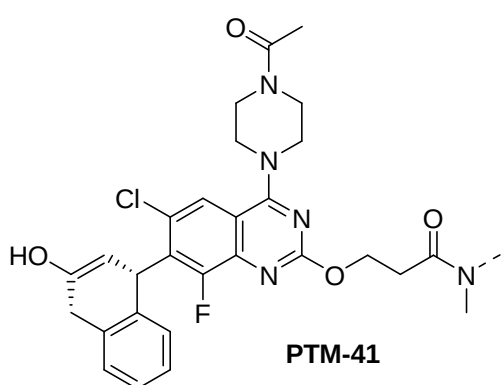
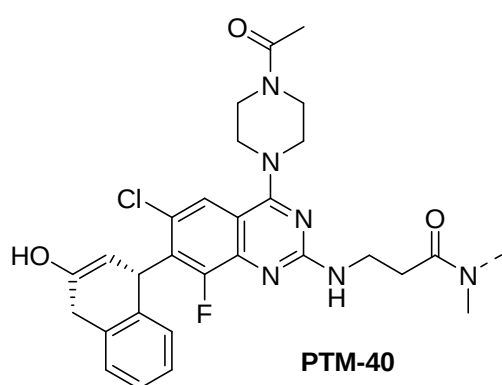
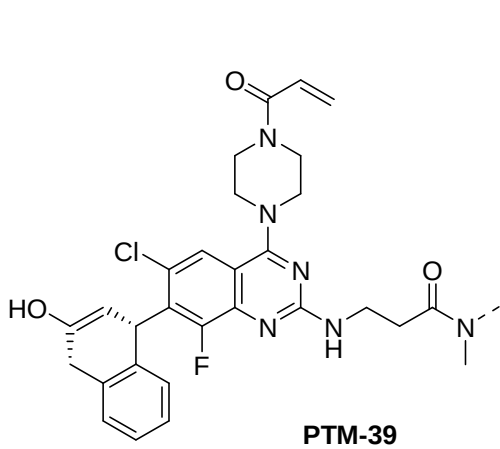
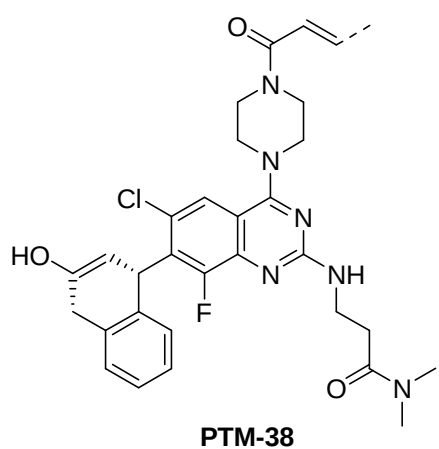
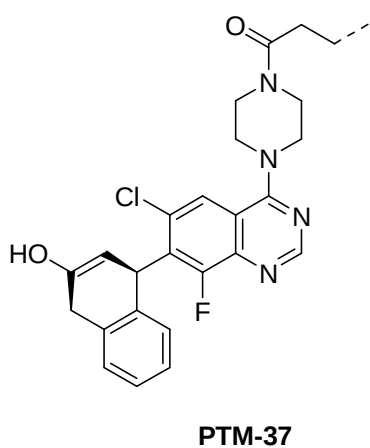
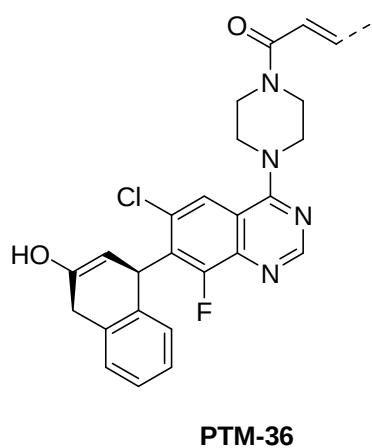
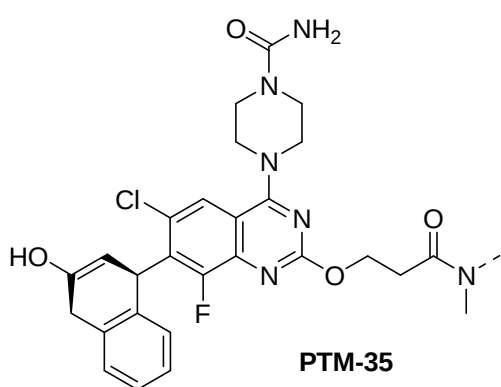
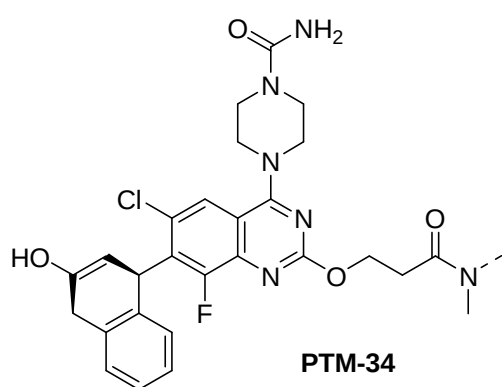
PTM-29

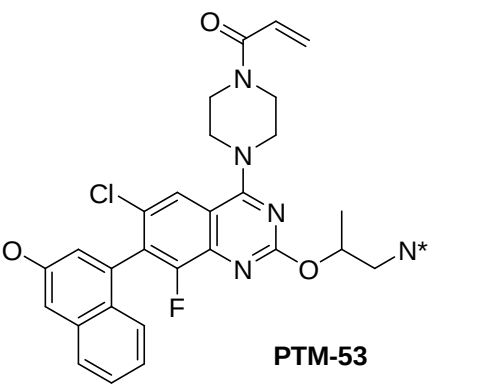
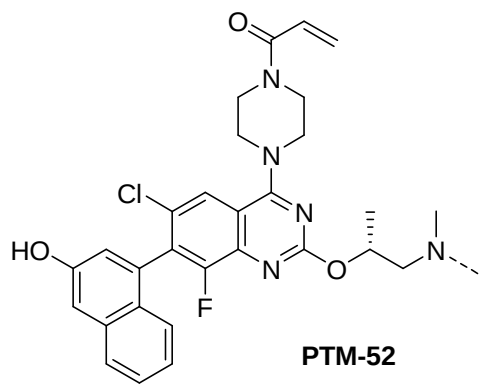
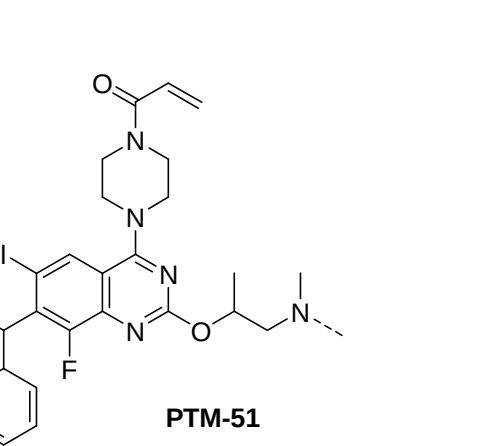
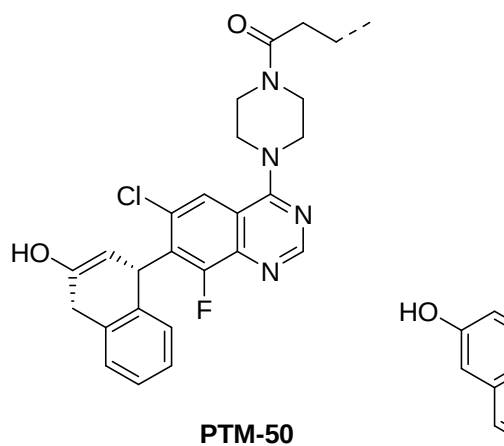
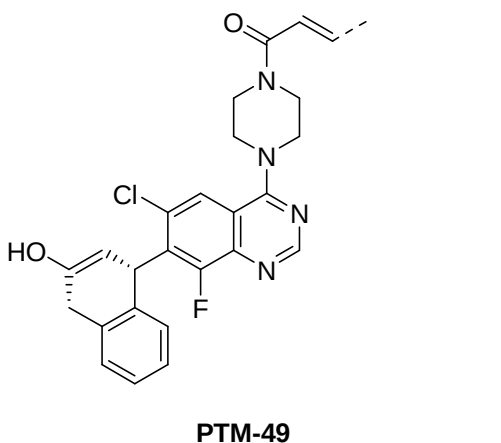
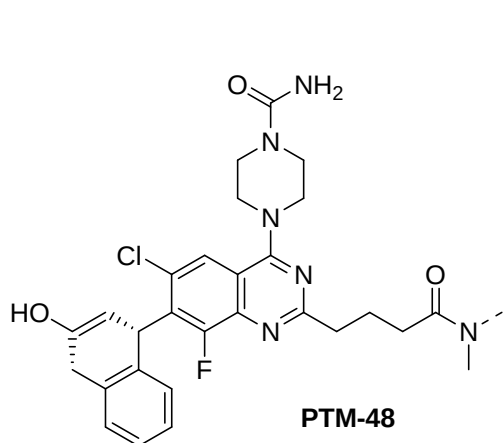
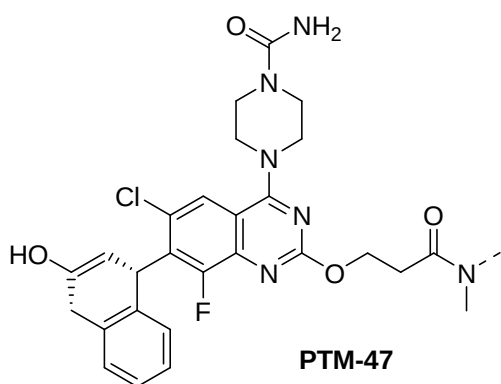
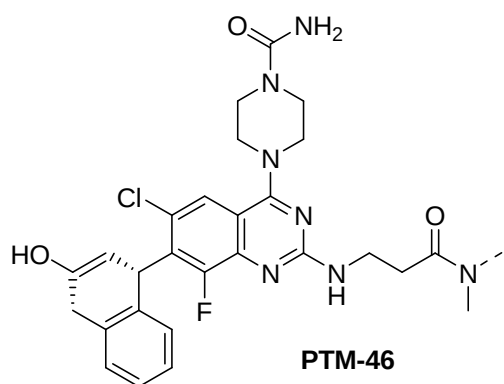
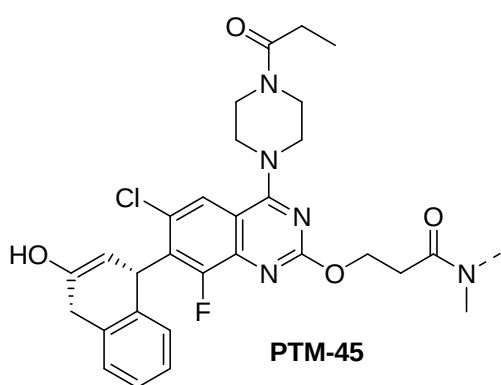
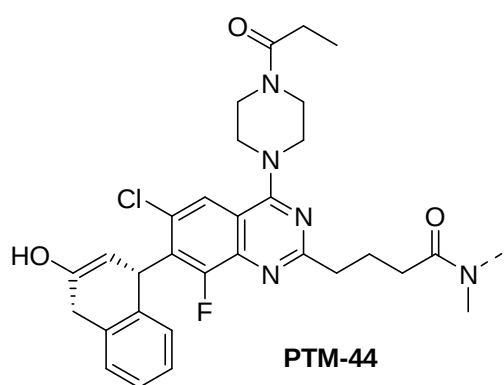


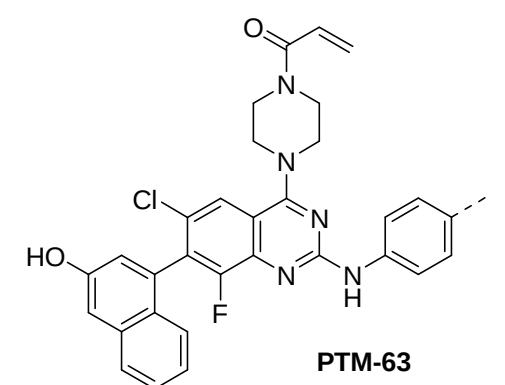
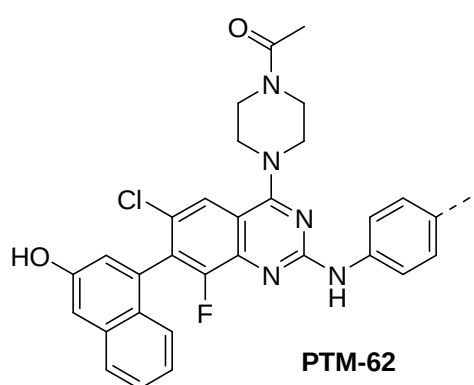
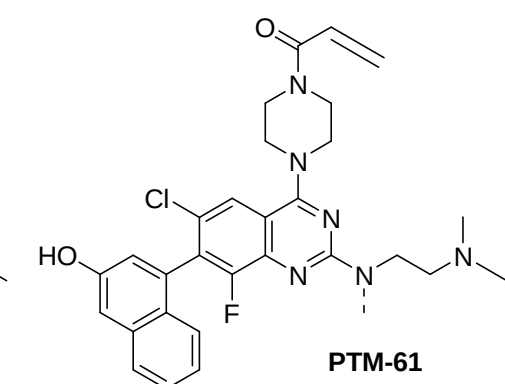
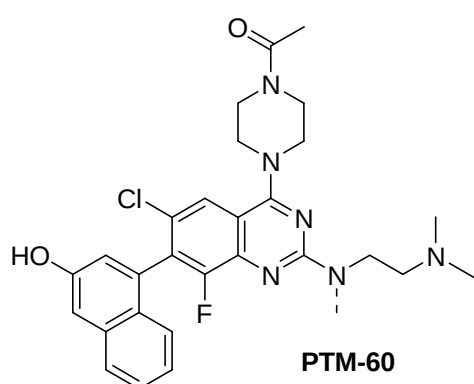
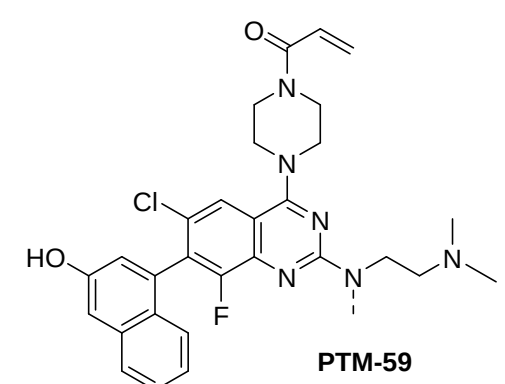
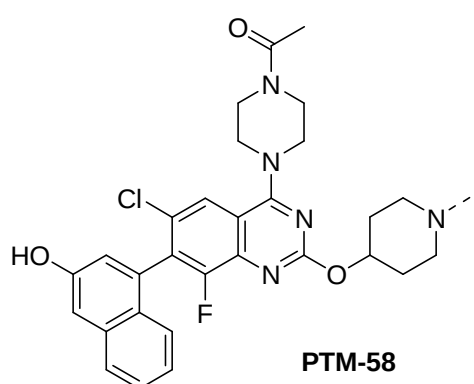
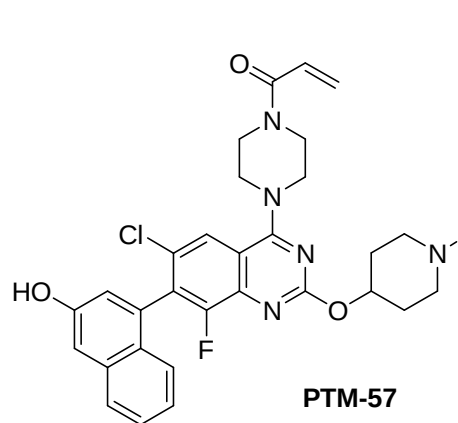
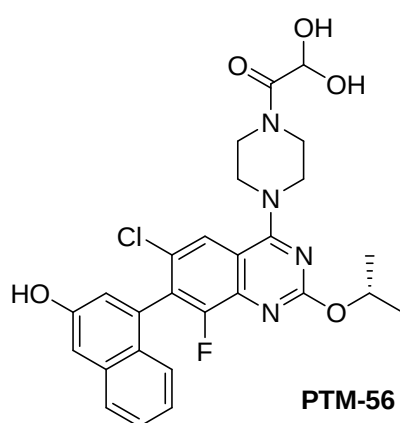
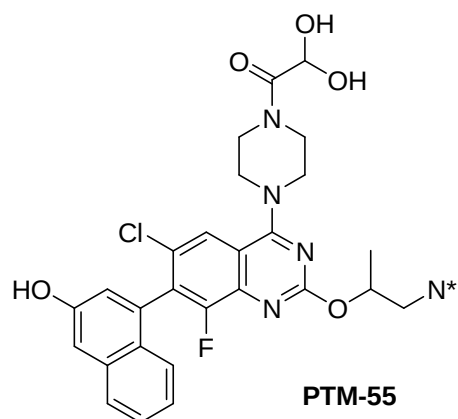
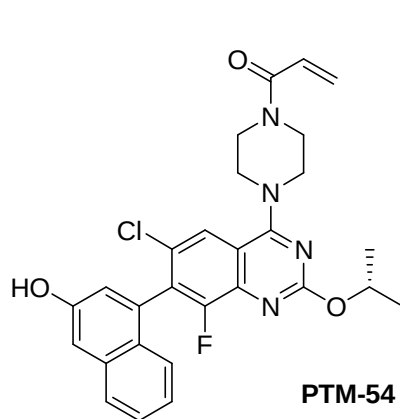
PTM-32

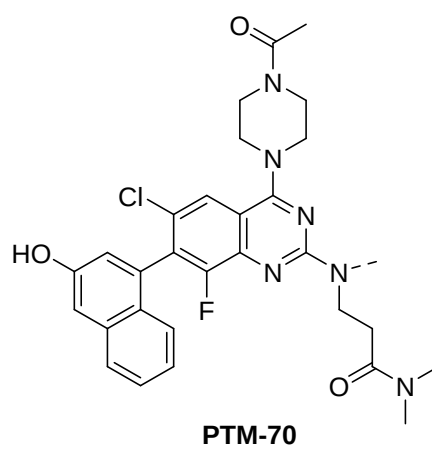
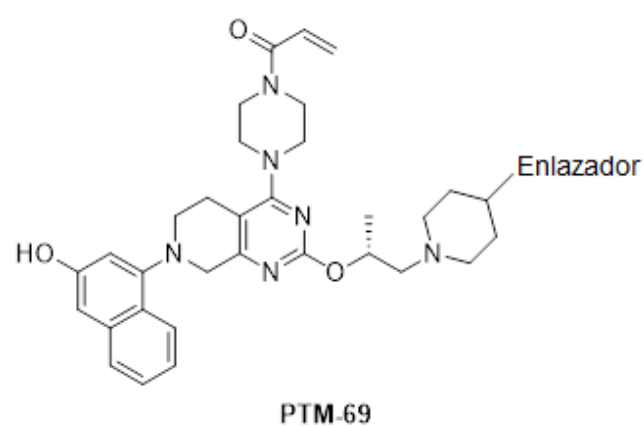
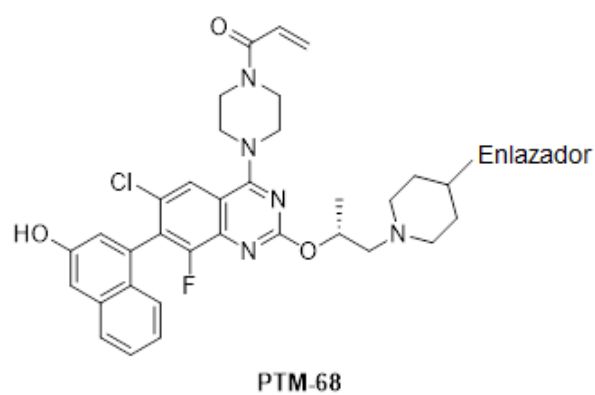
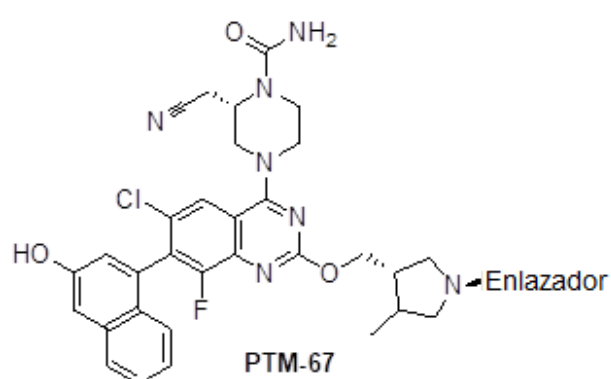
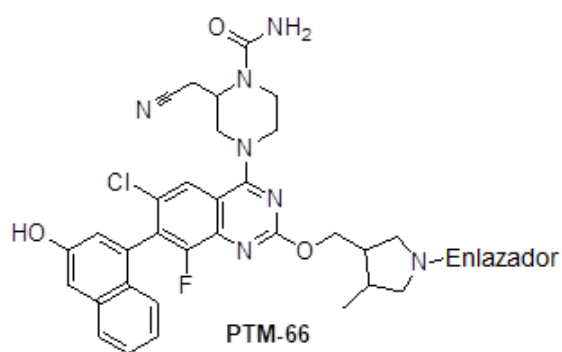
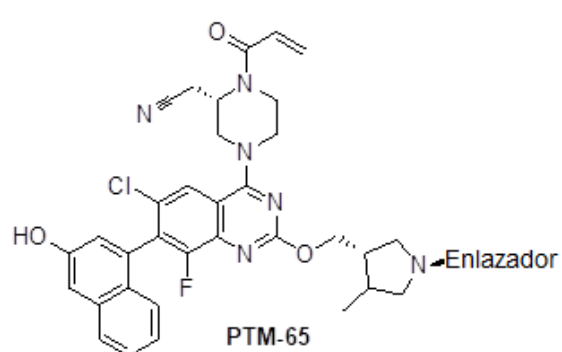
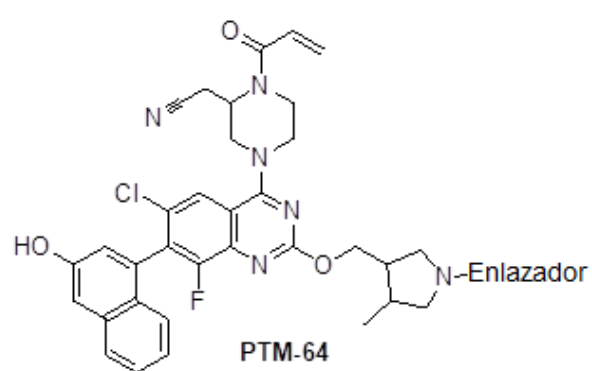


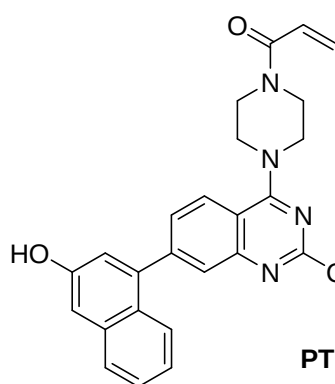
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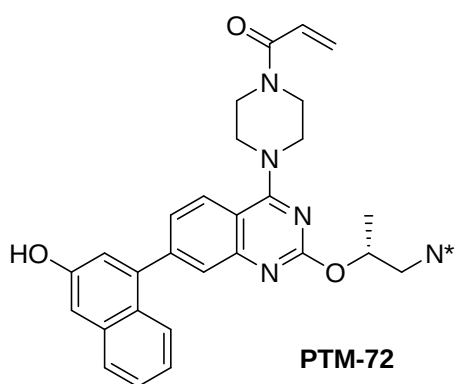






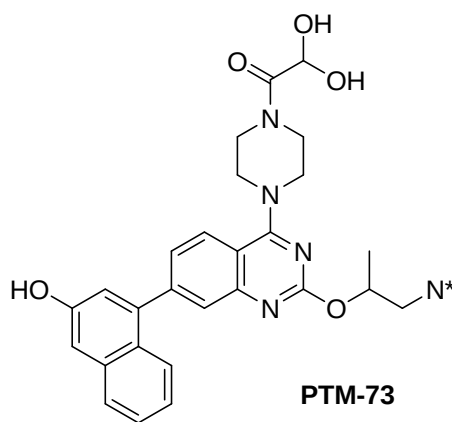
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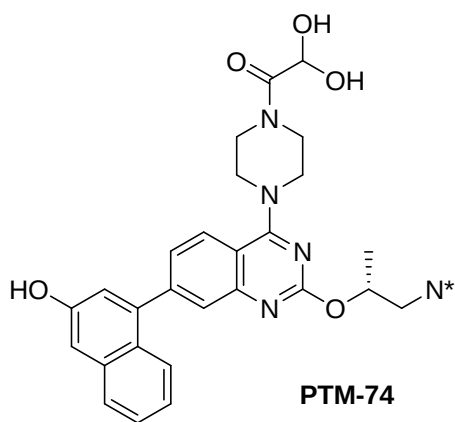
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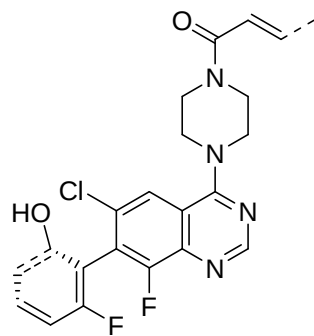
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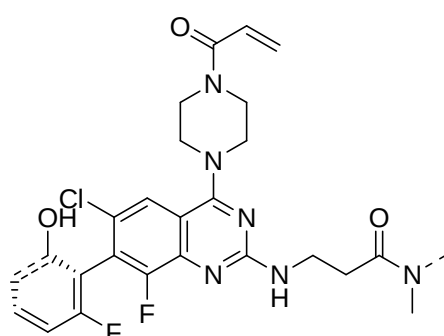
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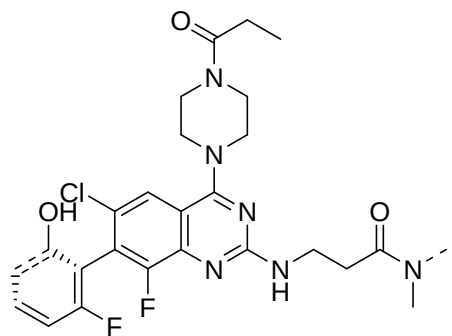
PTM-75

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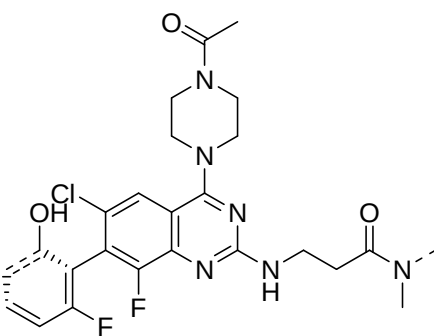
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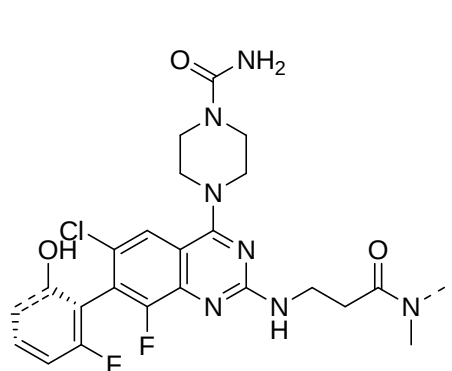
PTM-77

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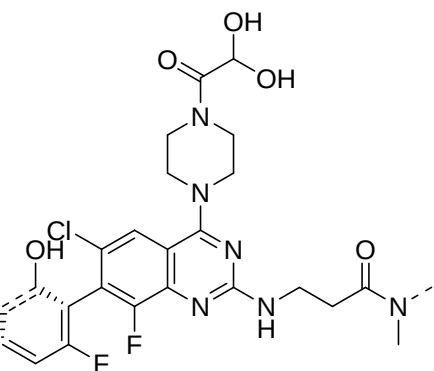
PTM-78

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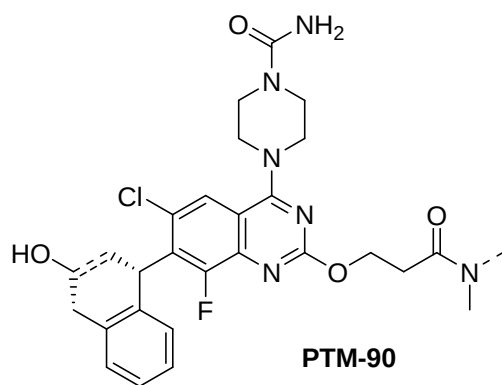
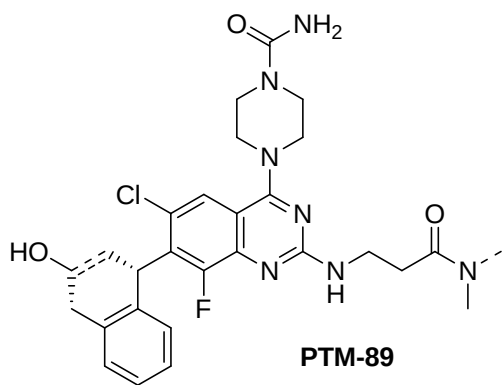
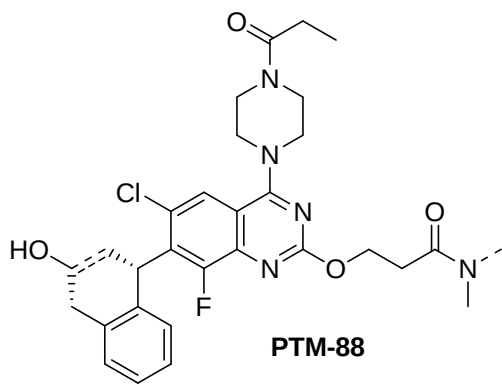
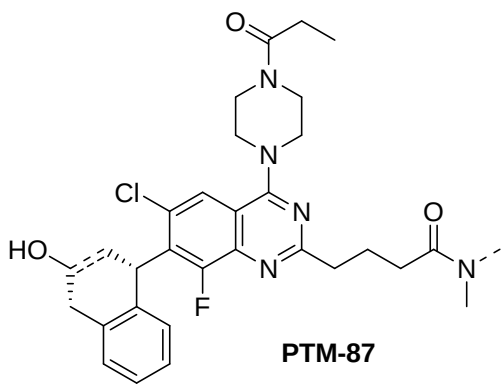
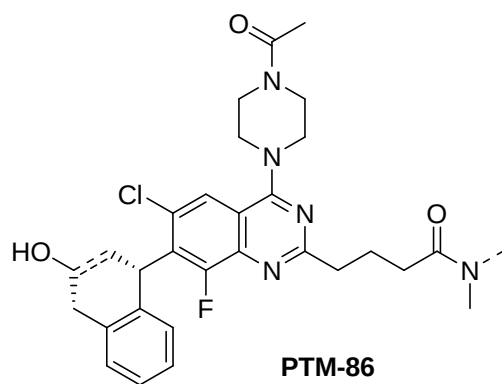
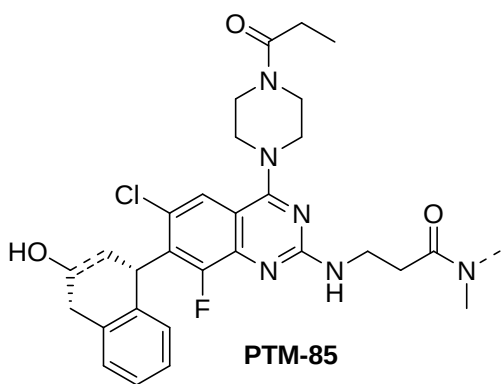
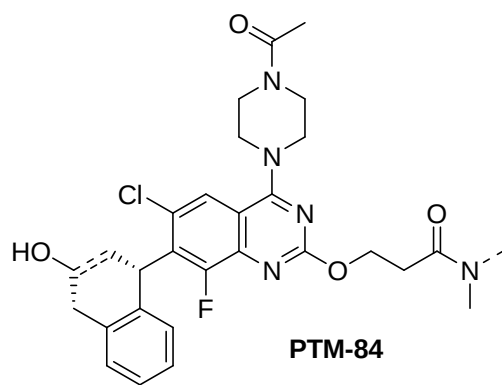
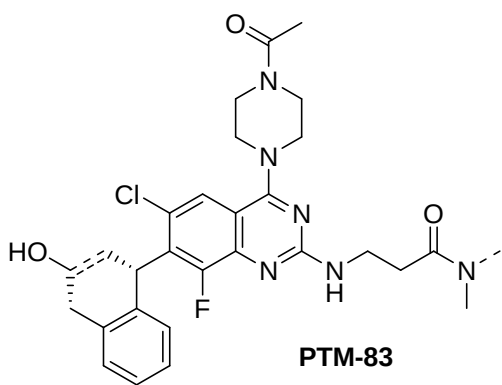
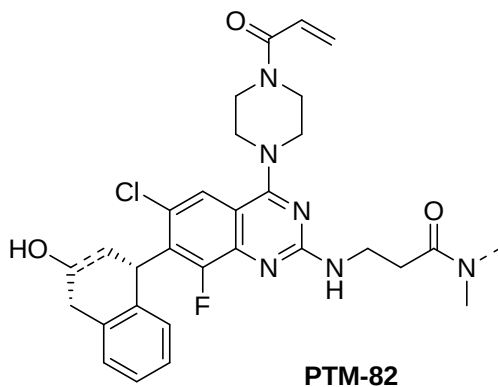
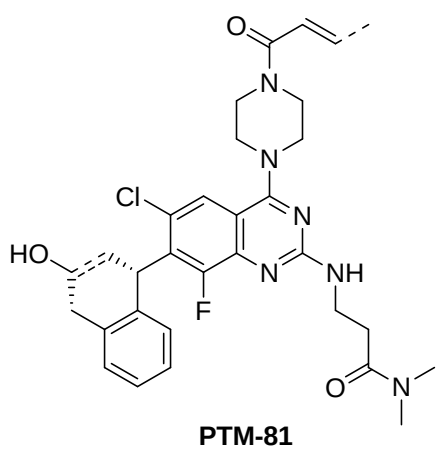
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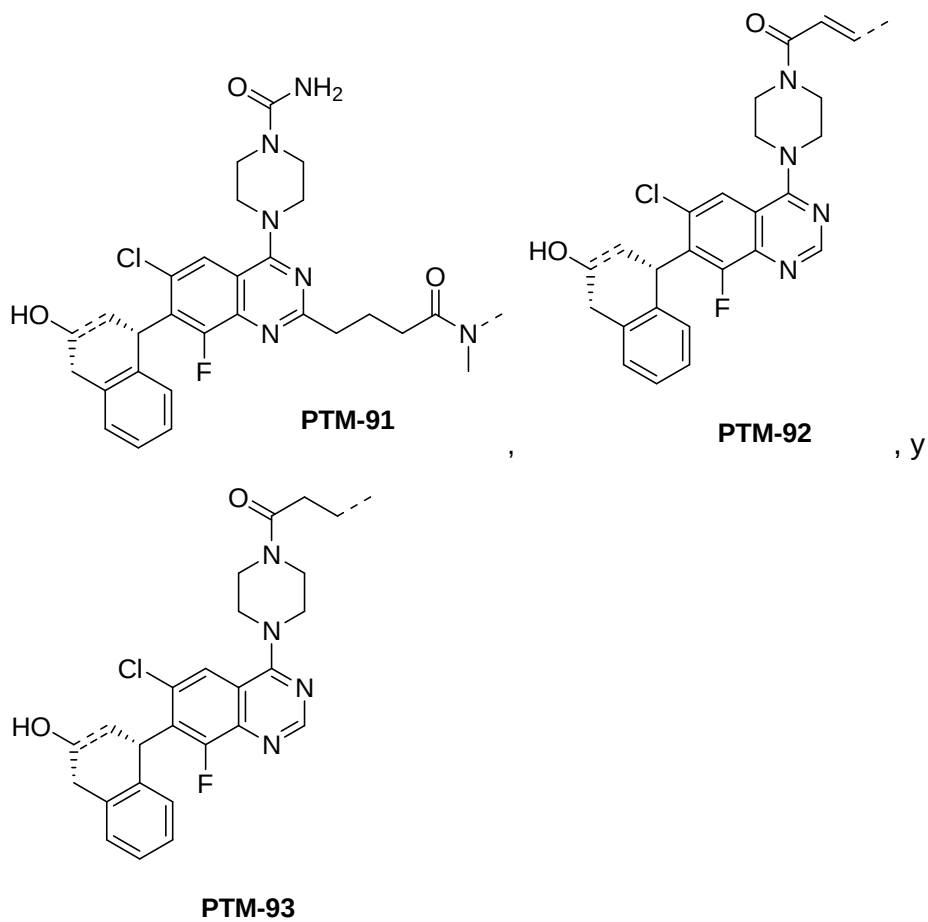
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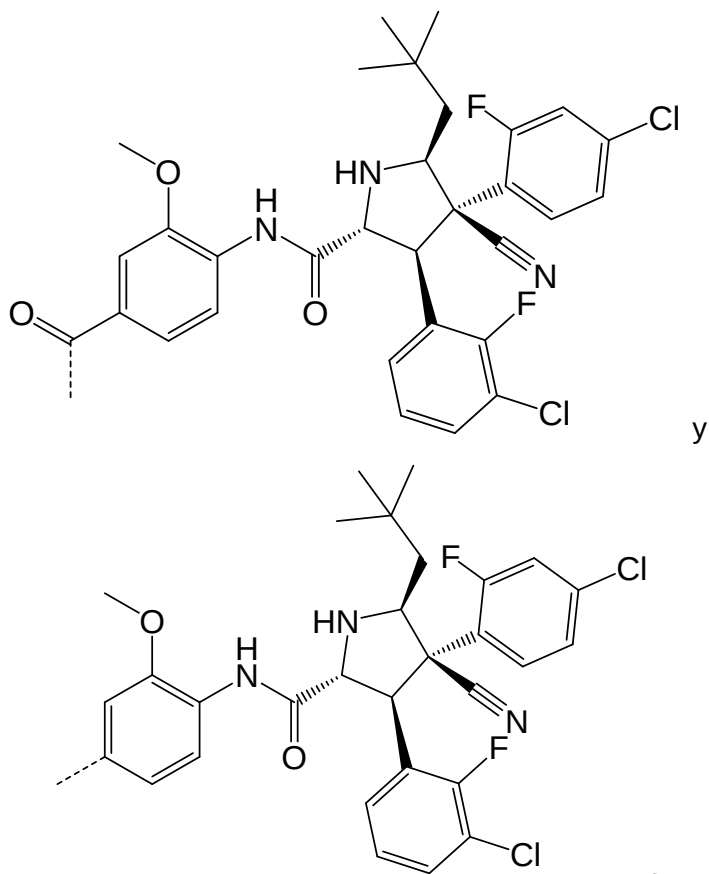
PTM-80

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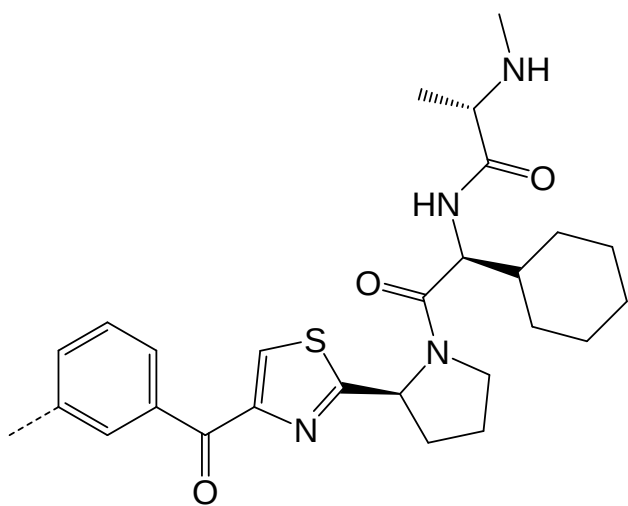




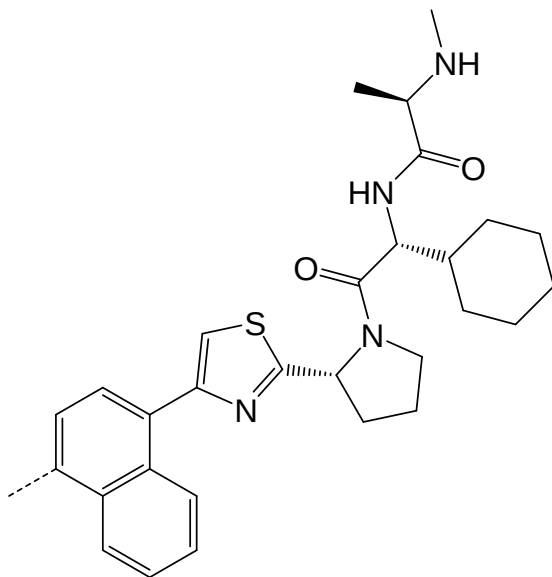
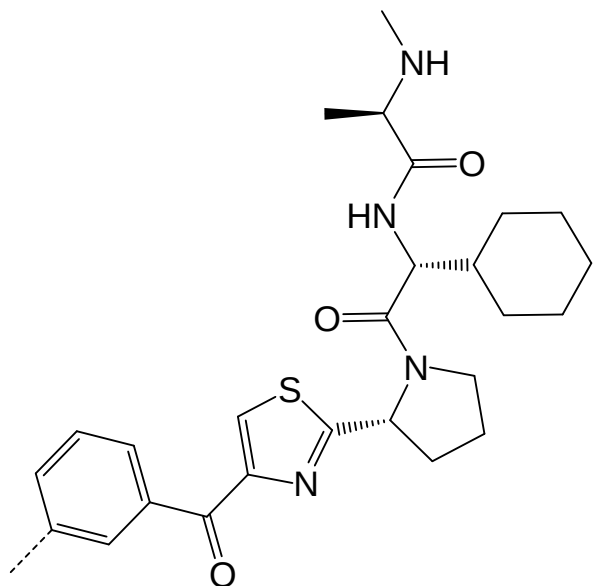
4. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 3, donde el MLM se selecciona de entre:



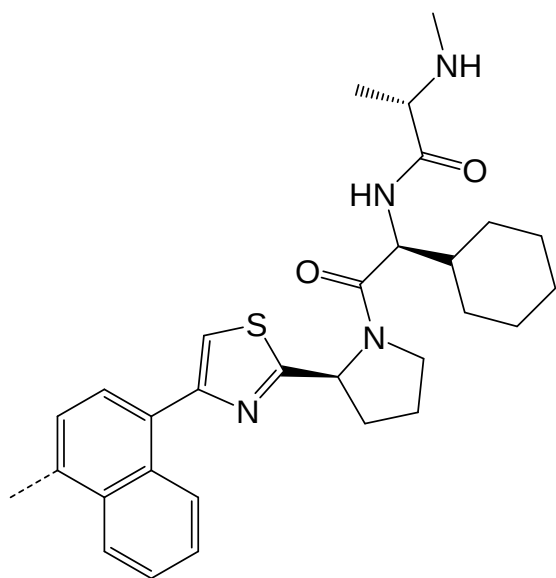
5. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 3, donde el ILM se selecciona de entre:



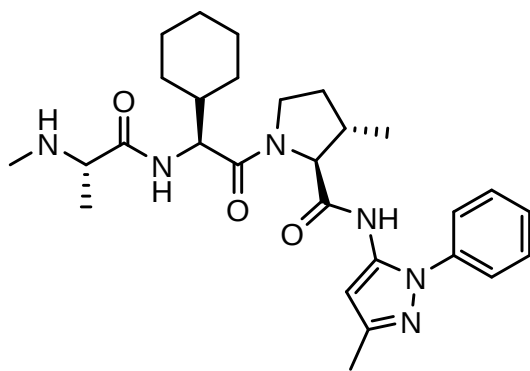
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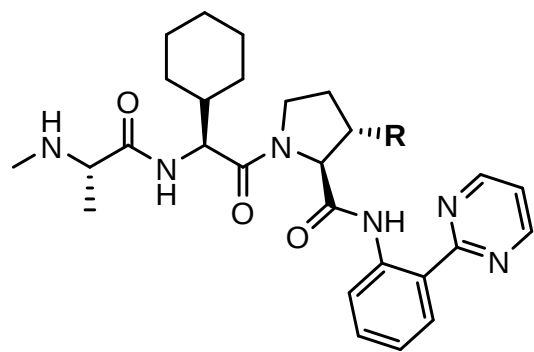
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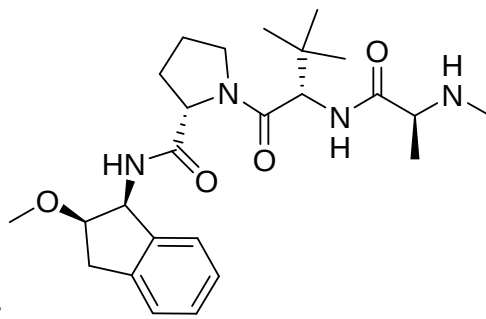
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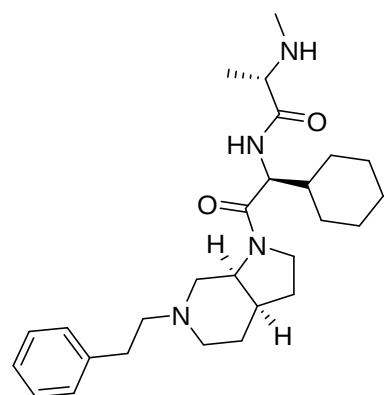
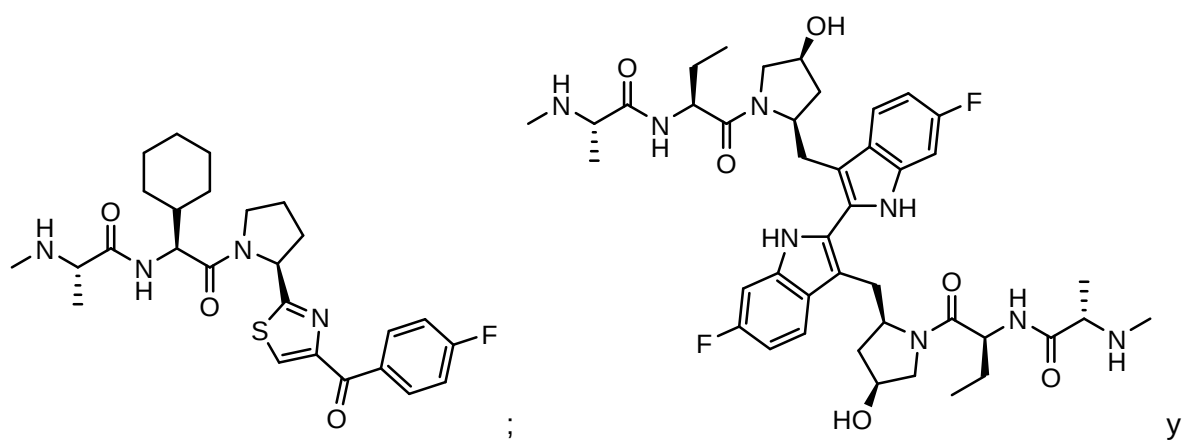
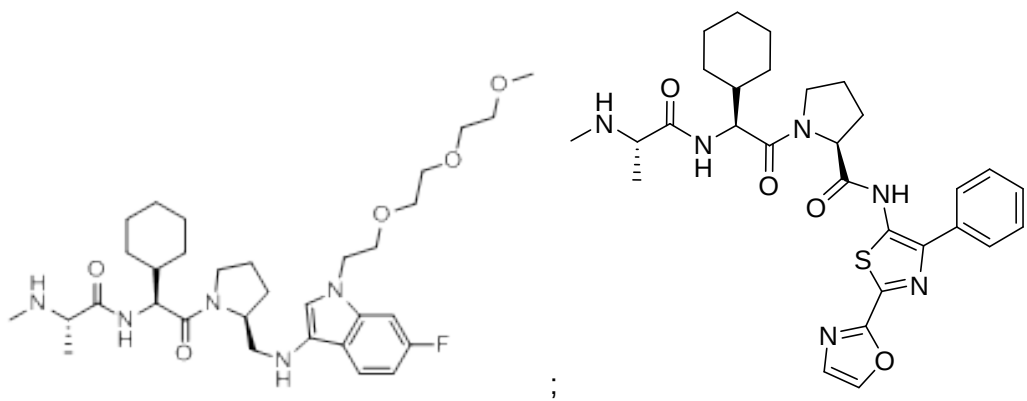
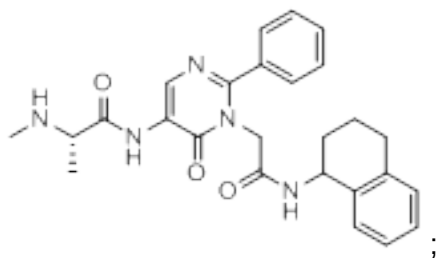
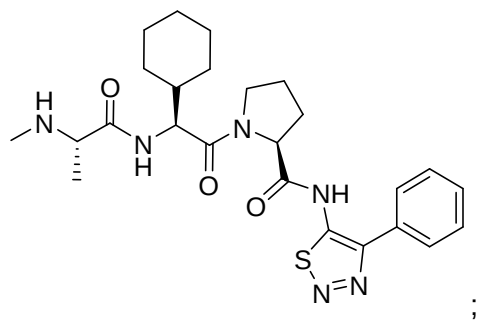
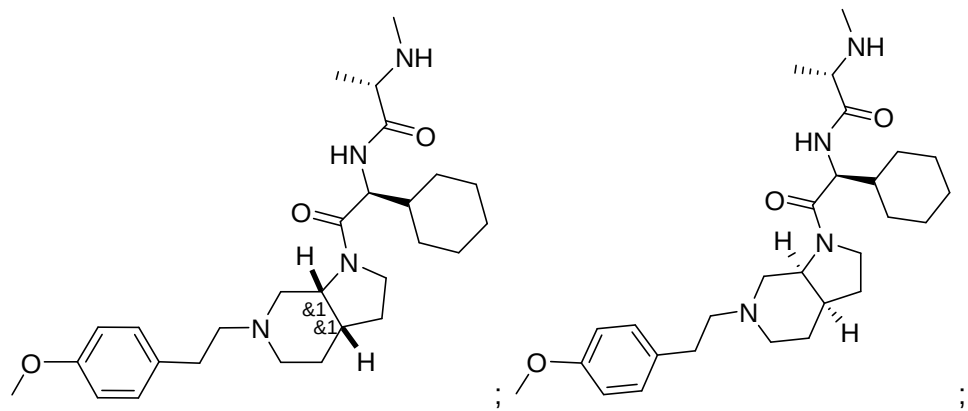
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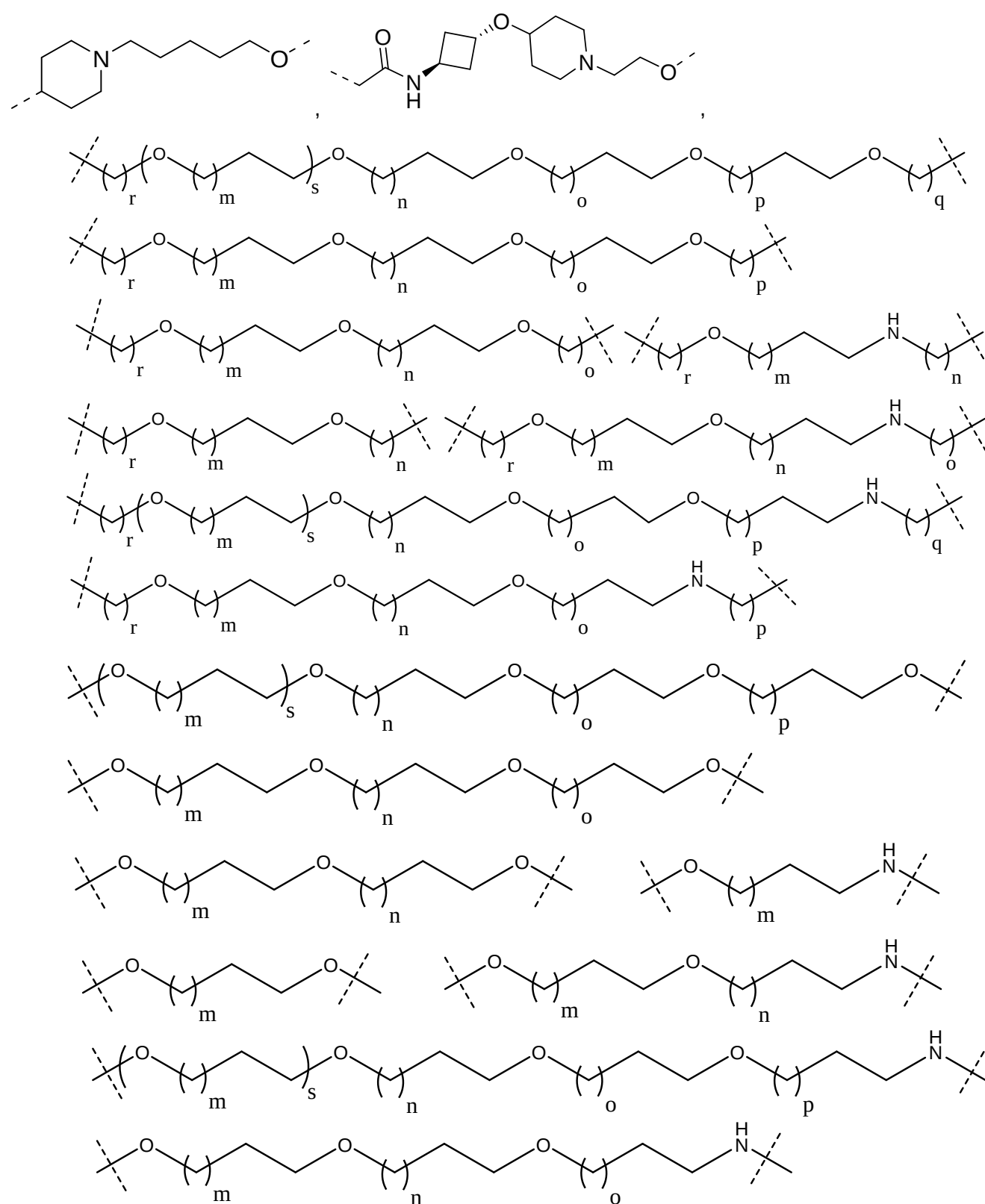
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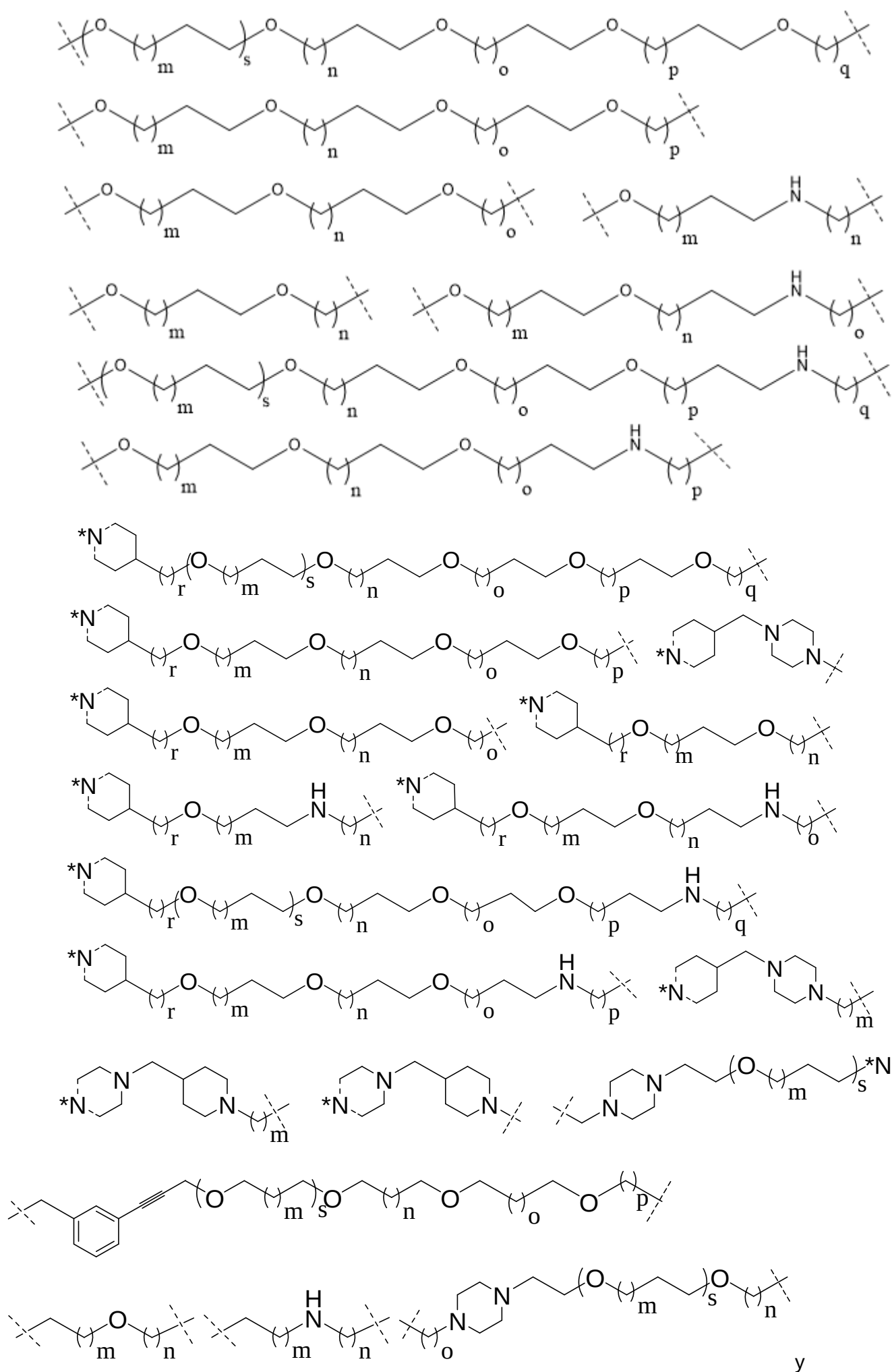


y

Chemical structures of various polyether and cyclic ether compounds:

- Linear polyether chain with five ether linkages: *OCCOCCOCCOCCOCCO*
- Linear polyether chain with four ether linkages and a terminal nitrogen: *OCCOCCOCCOCCOCCN*
- Linear polyether chain with three ether linkages and a terminal nitrogen: *OCCOCCOCCOCCOCCN*
- Linear polyether chain with two ether linkages and a terminal nitrogen: *OCCOCCOCCOCCOCCN*
- Linear polyether chain with one ether linkage and a terminal nitrogen: *OCCOCCOCCOCCOCCN*
- Cyclic ether (1,3-dioxane) with a terminal nitrogen: *C1CCNCC1*
- Cyclic ether (1,3-dioxane) with a terminal nitrogen and a side chain: *CCN1CCNCC1CCO*
- Cyclic ether (1,3-dioxane) with a terminal nitrogen and a side chain: *CCN1CCNCC1CCO*





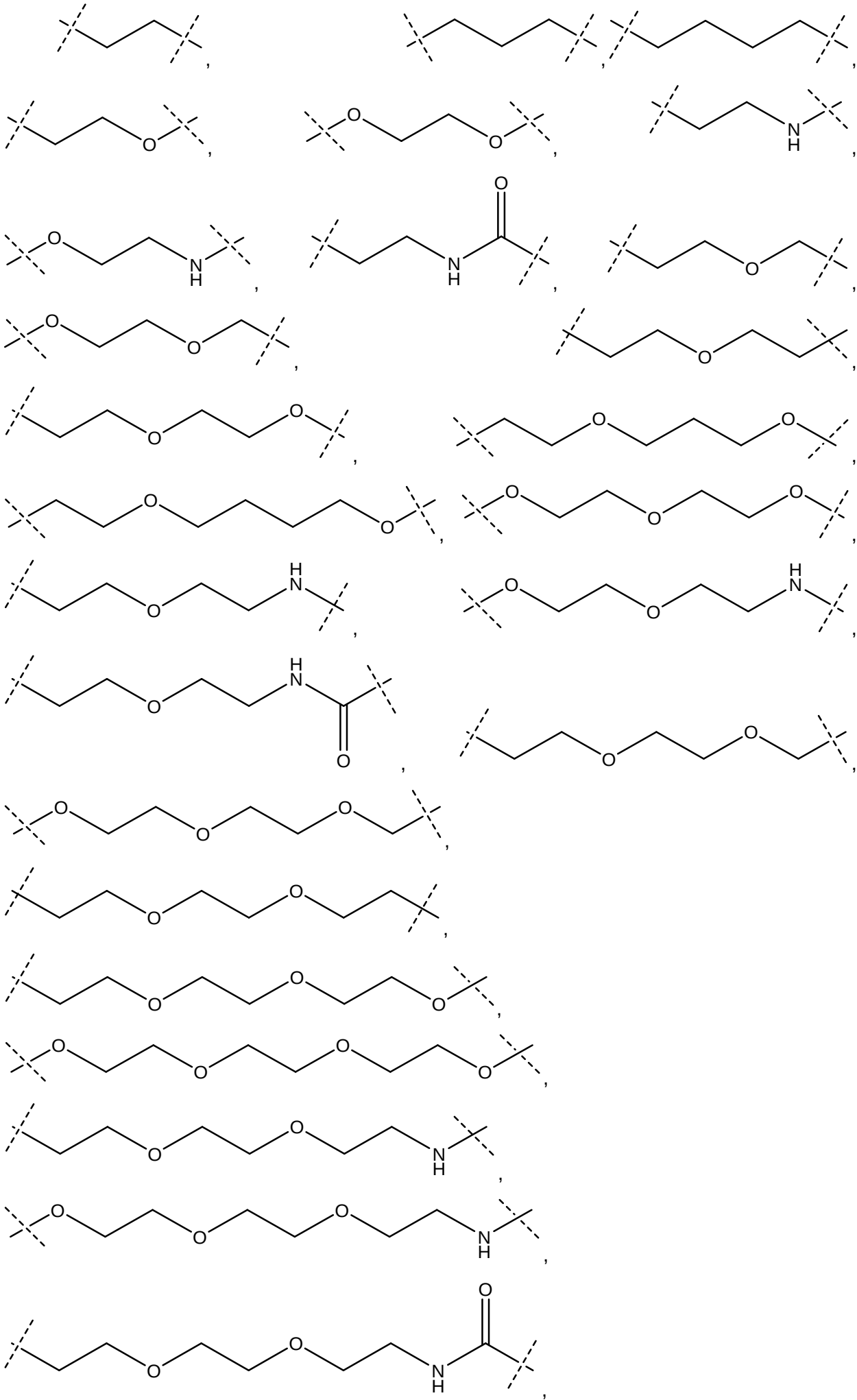
alquilo C₁₋₆; o

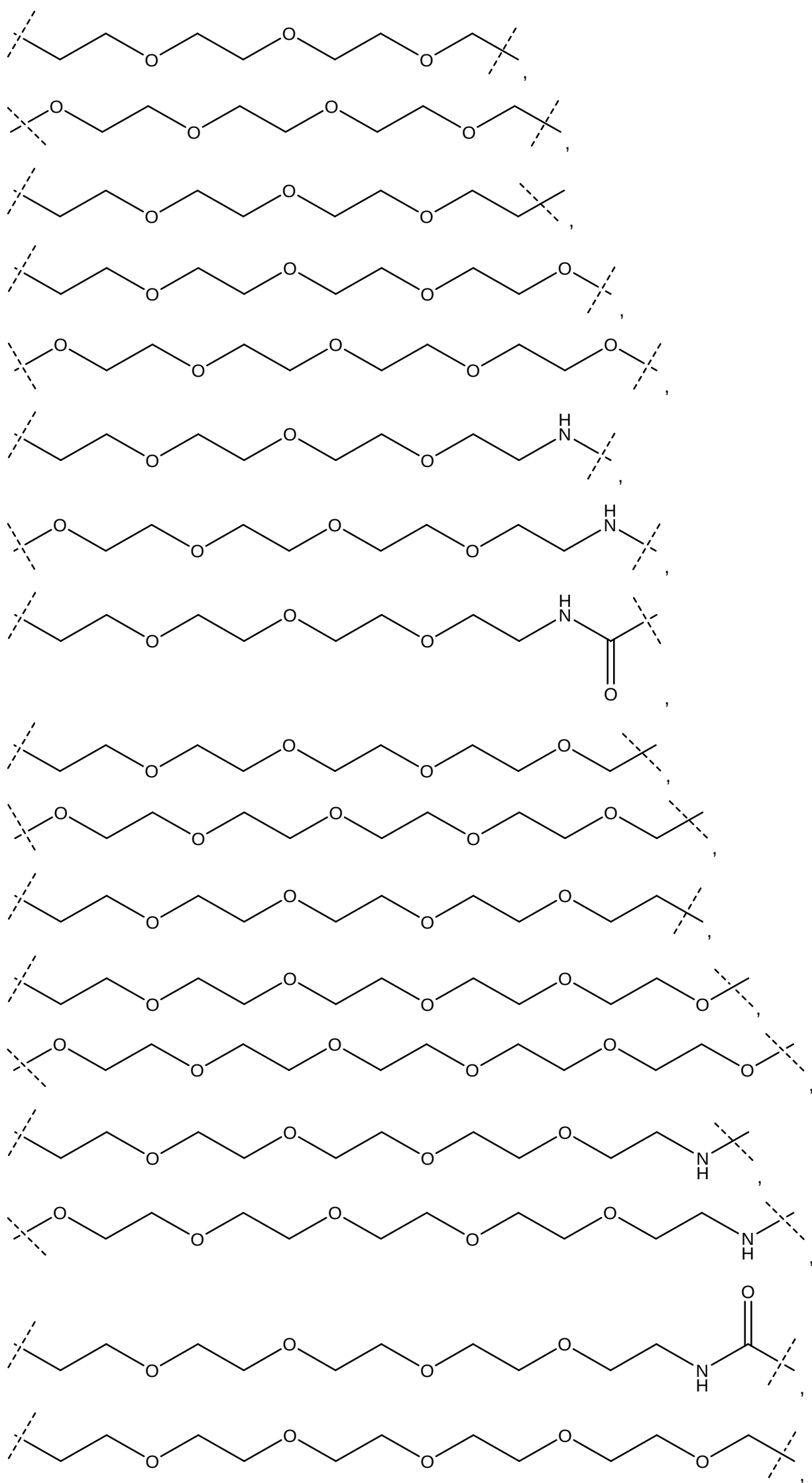
donde:

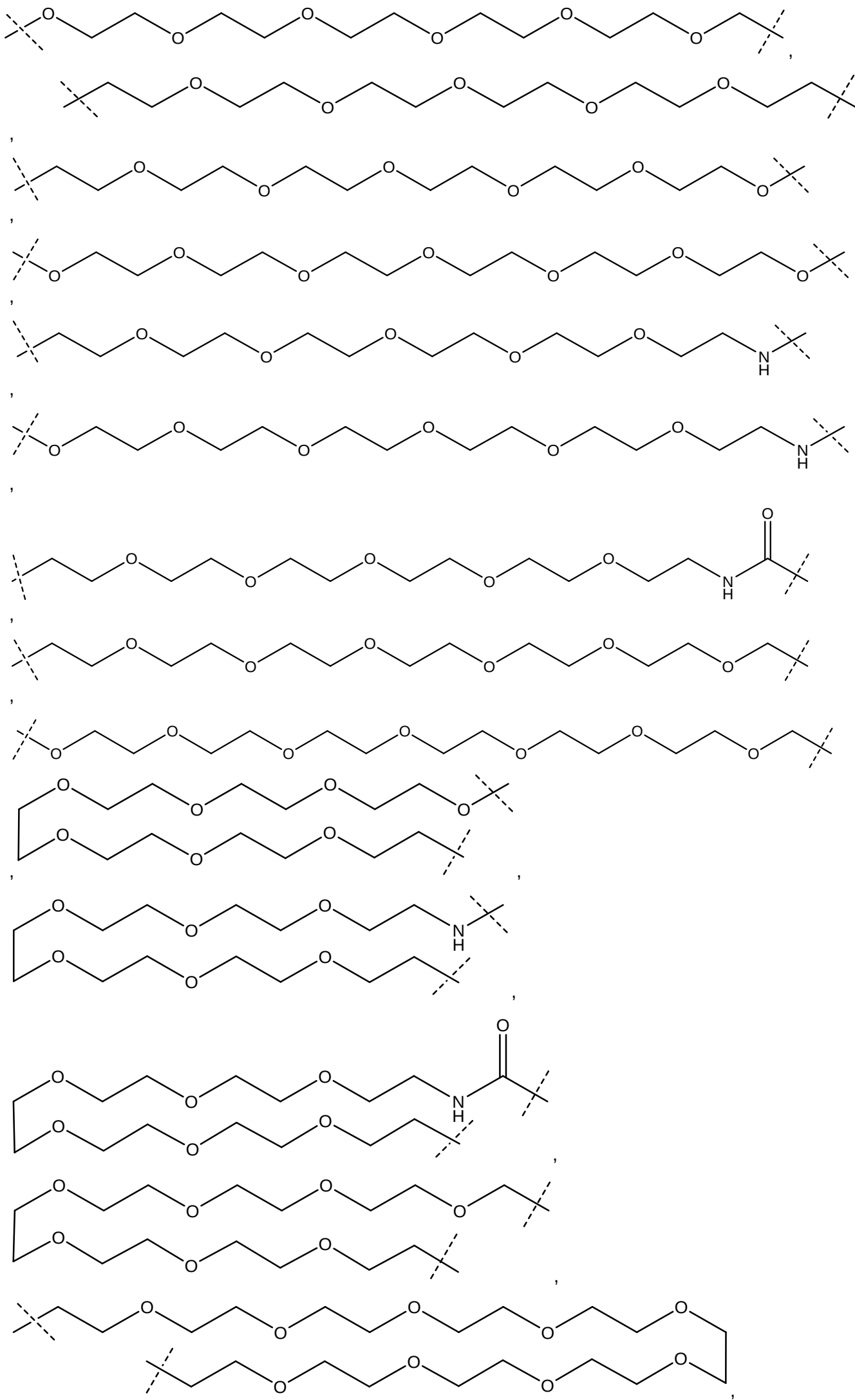
*N del heterocicloalquilo es compartido con el PTM; y

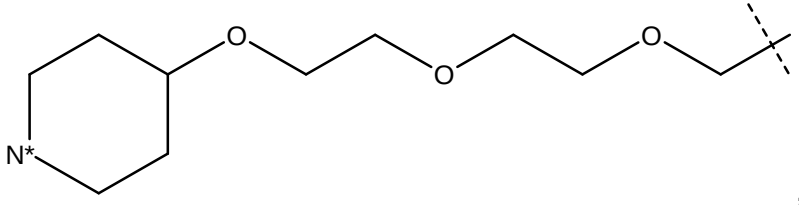
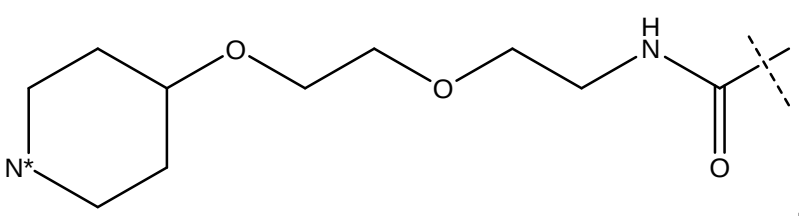
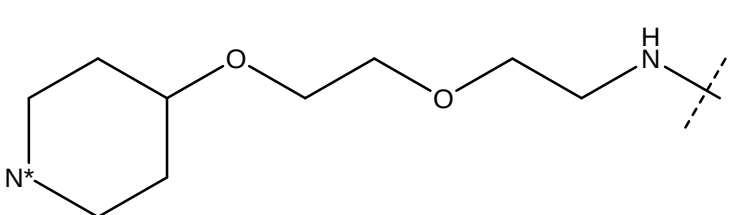
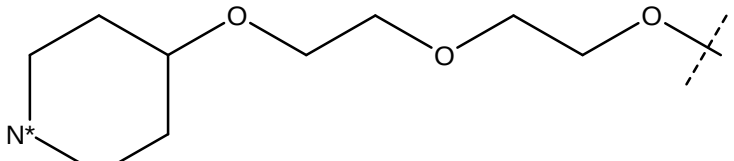
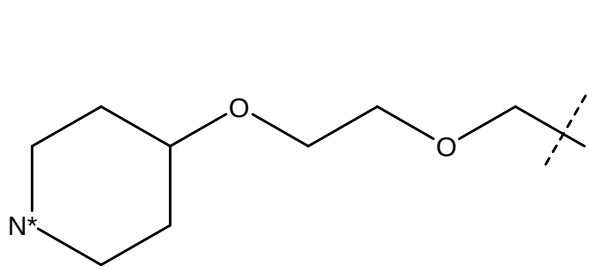
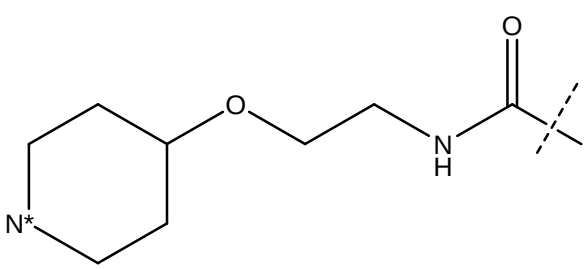
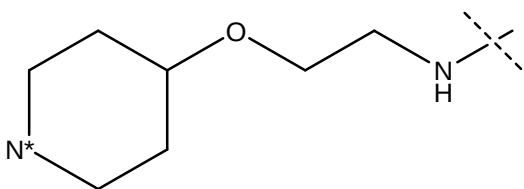
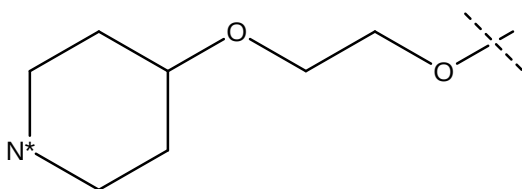
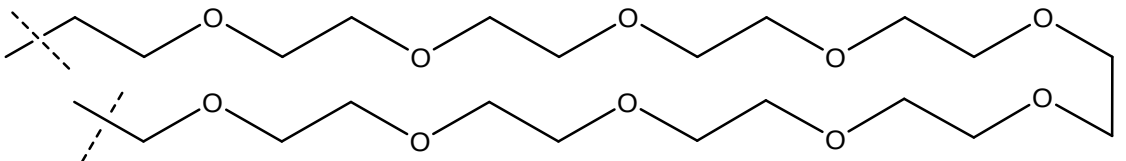
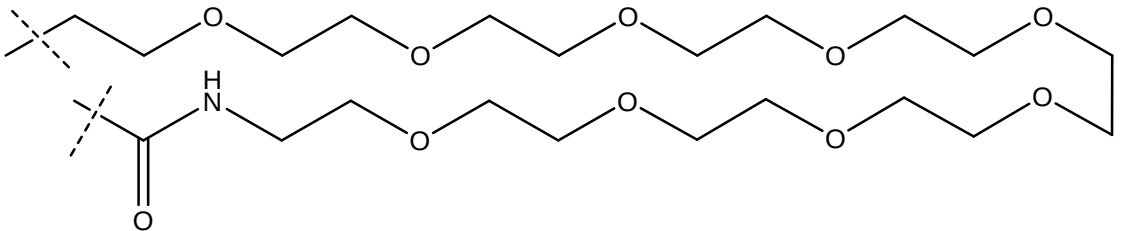
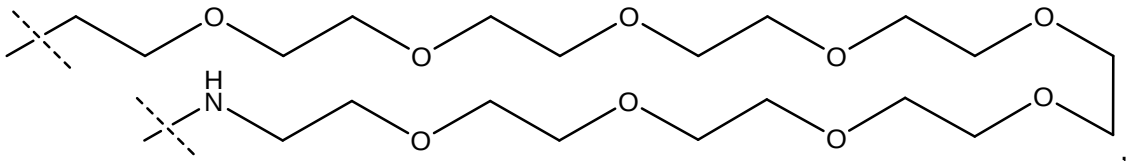
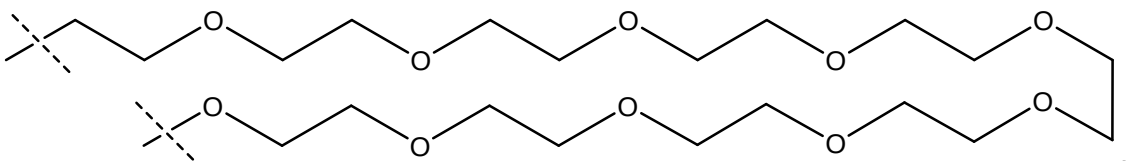
cada m, n, o, p, q, r y s se selecciona de manera independiente de entre 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 y 20.

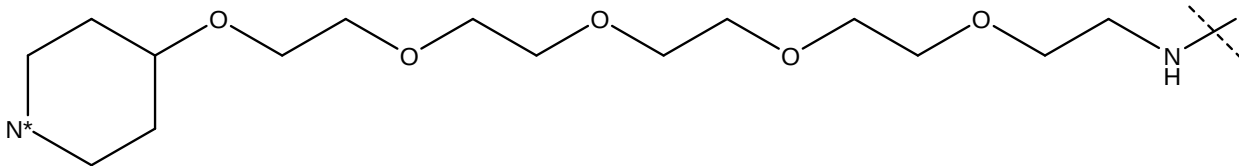
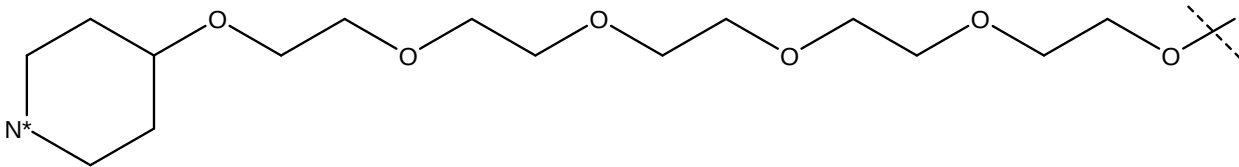
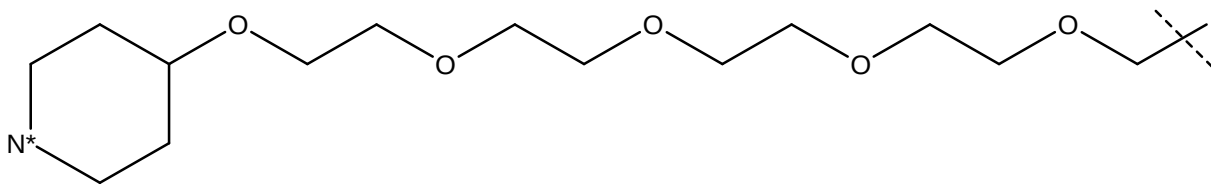
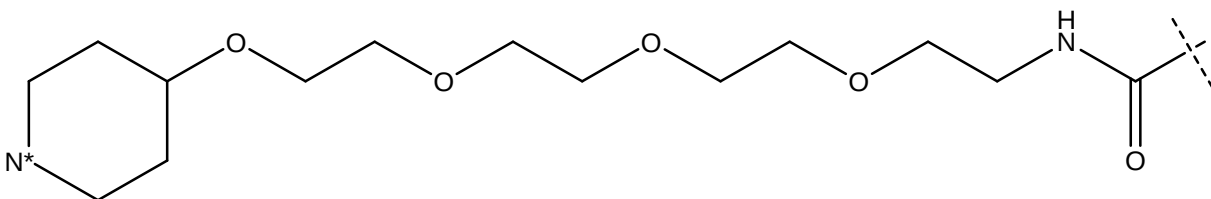
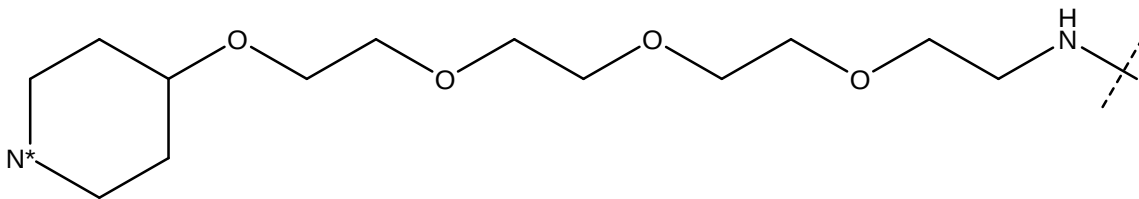
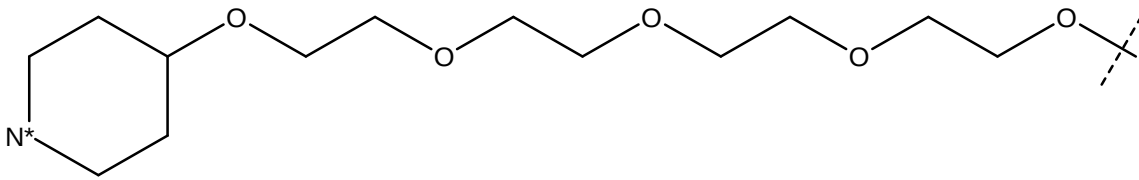
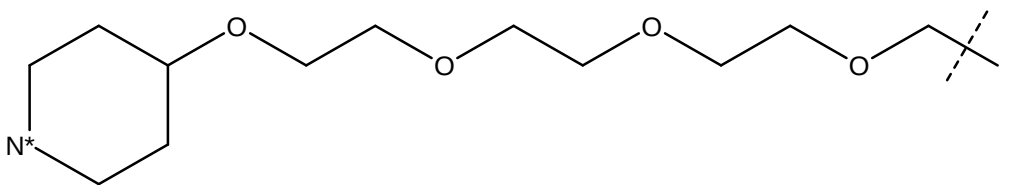
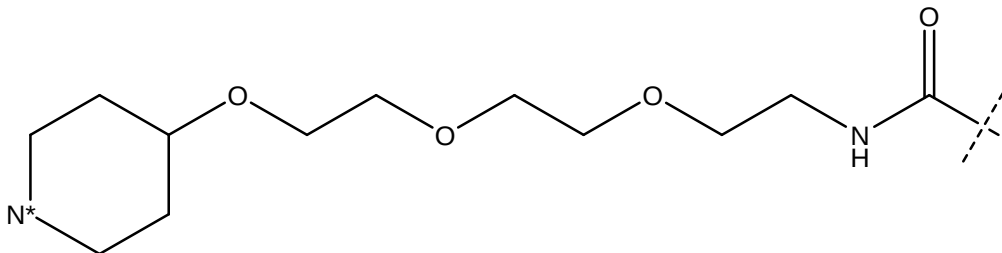
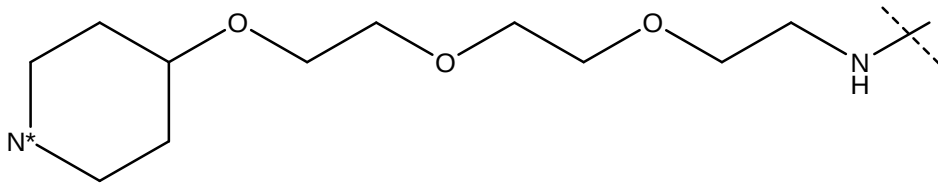
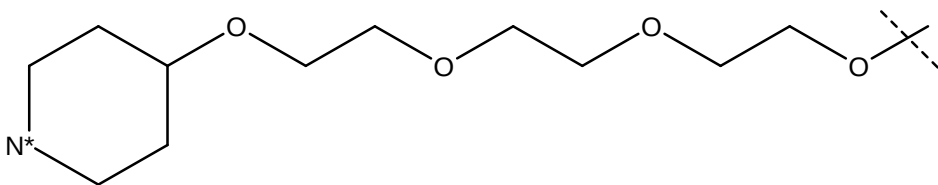
7. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 5, en donde L se selecciona de entre:

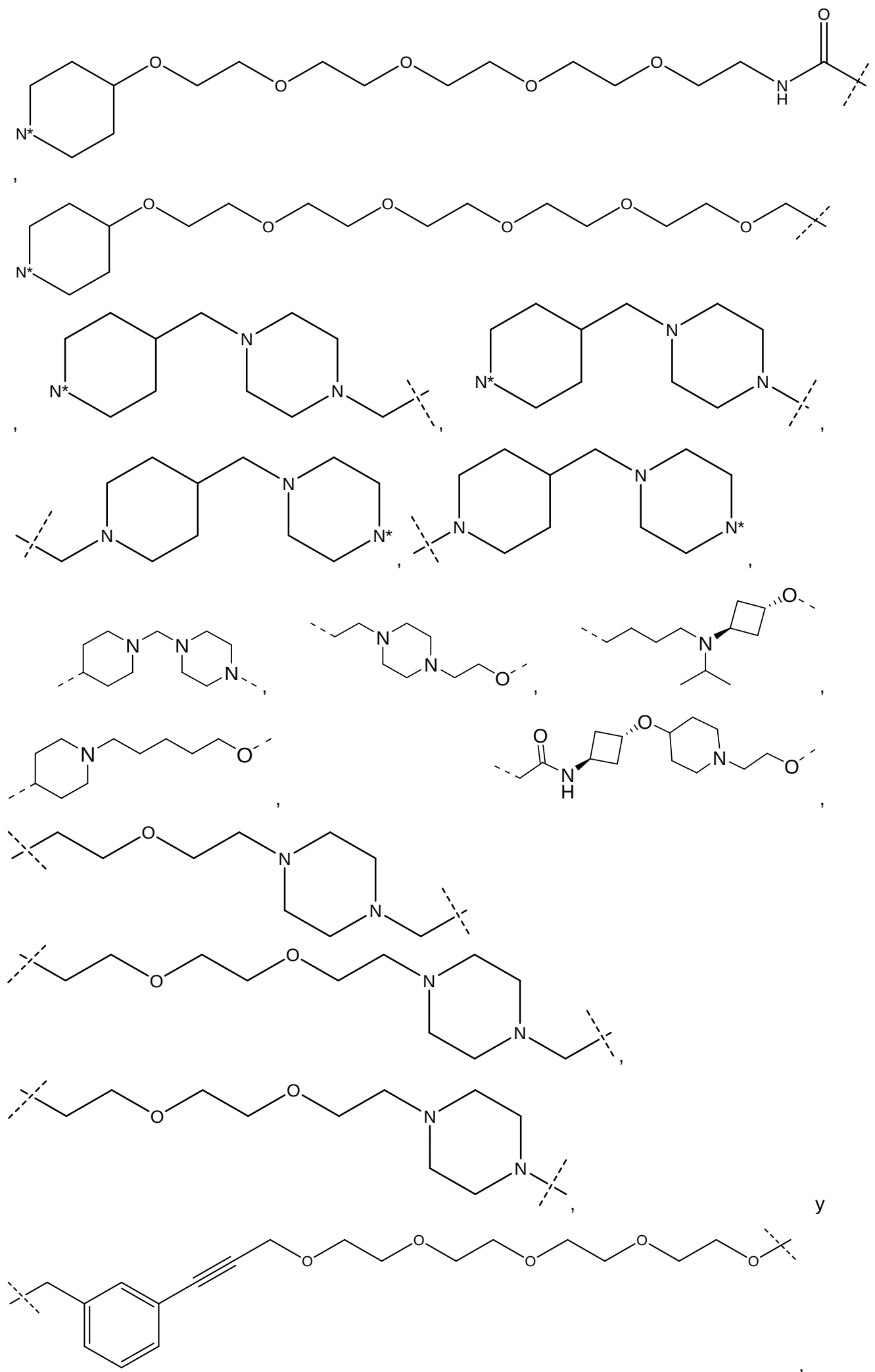










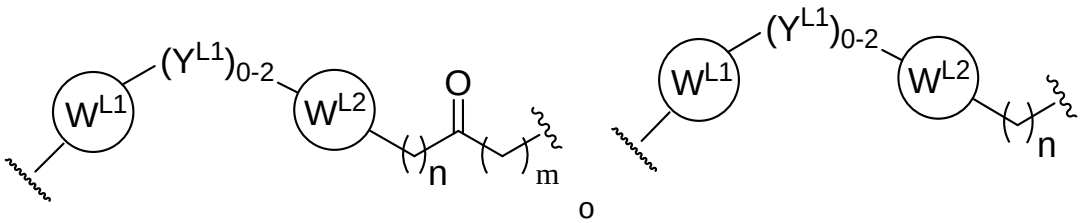


8. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 5, en donde L es un grupo polietileneoxi con 1 a 10 unidades de etilenglicol opcionalmente sustituido

con arilo.

9. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 5, donde L es un alquilo C₁₋₅₀, donde cada carbono opcionalmente se sustituye con (1) un heteroátomo seleccionado de entre átomos de N, S, P o Si que tiene una cantidad adecuada de hidrógenos y/o sustituciones para completar la valencia, (2) un cicloalquilo o cicloalquilo bicíclico opcionalmente sustituido, (3) un heterocicloalquilo o heterocicloalquilo opcionalmente sustituido, (4) un arilo o arilo bicíclico opcionalmente sustituido, o (5) heteroarilo o heteroarilo bicíclico opcionalmente sustituido, con la condición de que no haya enlaces heteroátomo-heteroátomo.

10. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 5, en donde L es:



donde:

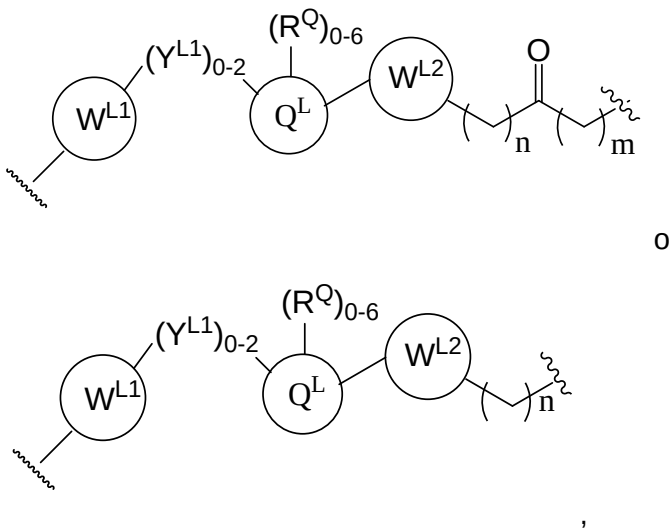
cada uno de W^{L1} y W^{L2} de manera independiente está ausente, o es un anillo de 4-8 miembros con 0-4 heteroátomos, opcionalmente sustituido con RQ, cada RQ es de manera independiente un H, halo, OH, CN, CF₃, alquilo C₁₋₆ opcionalmente sustituido, alcoxi C₁₋₆ opcionalmente sustituido, o 2 grupos RQ tomados junto con el átomo al que se unen forman un sistema de anillo de 4-8 miembros que contiene 0-4 heteroátomos;

Y^{L1} es cada uno de manera independiente un enlace, alquilo C₁₋₆ opcionalmente sustituido, y opcionalmente uno o más átomos de C se remplazan con O; o alcoxi C₁₋₆ opcionalmente sustituido;

n es 0-10; y

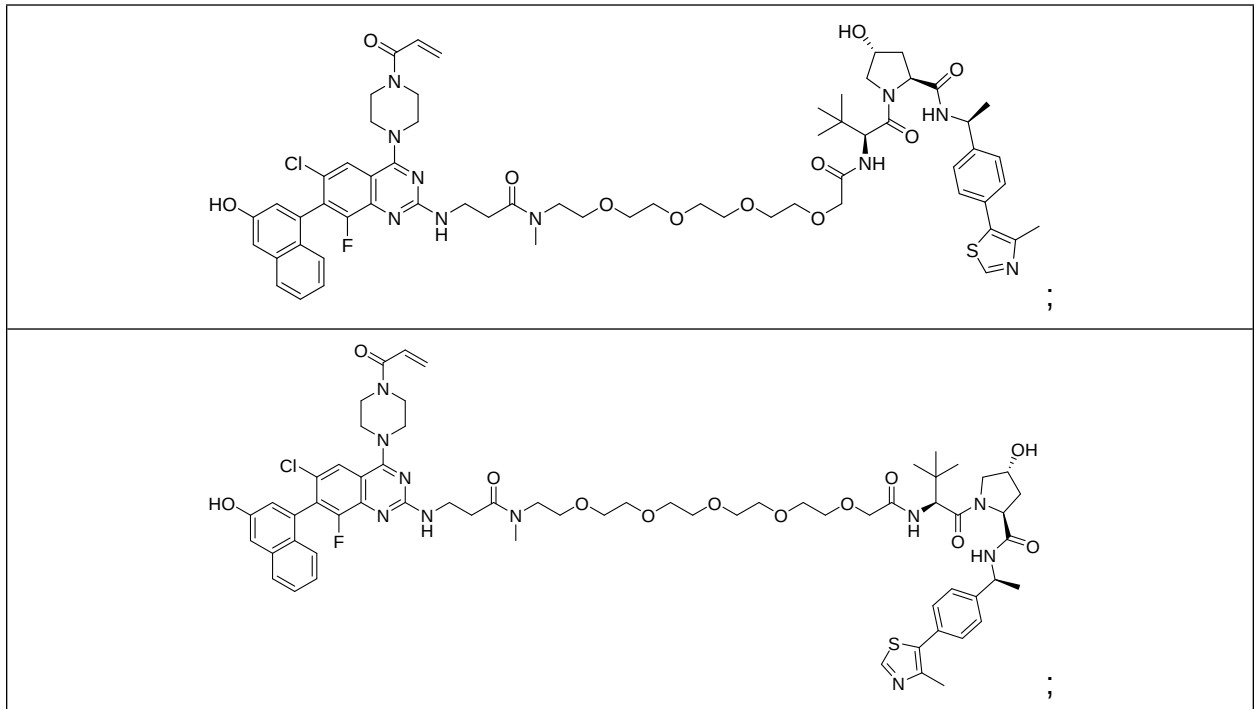
 indica el punto de unión a PTM o ULM.

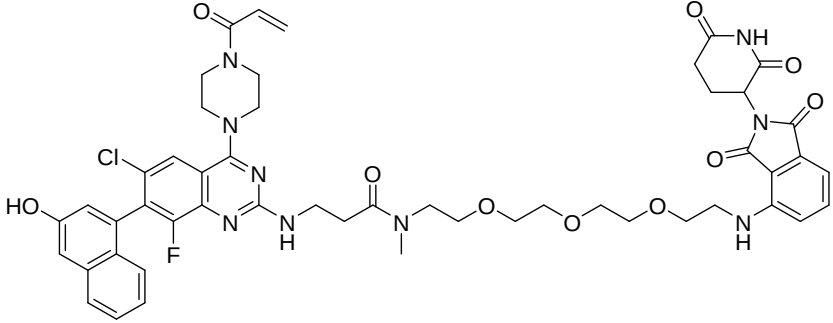
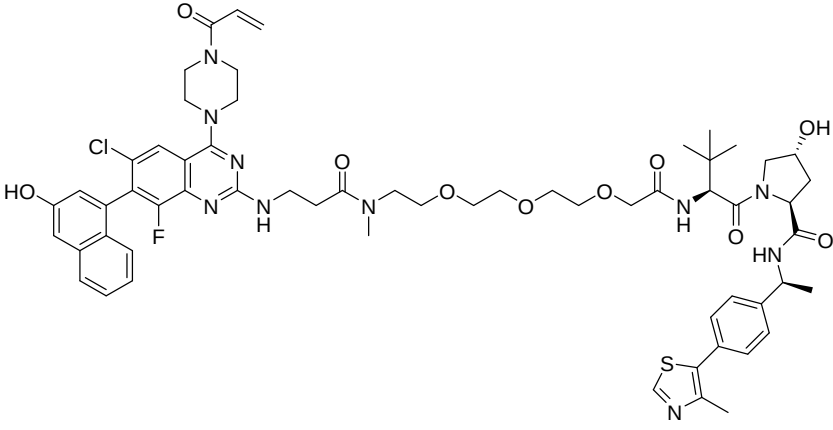
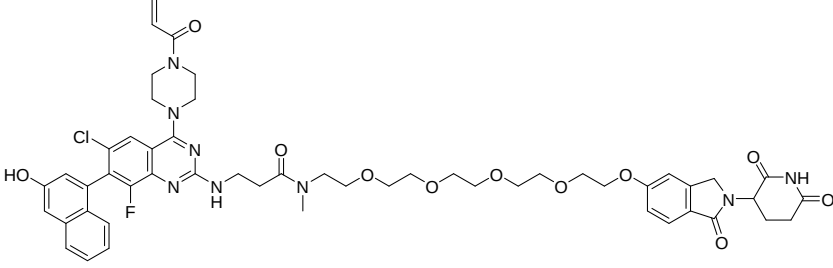
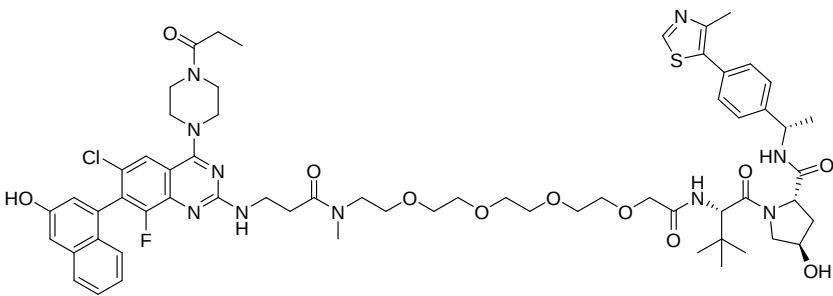
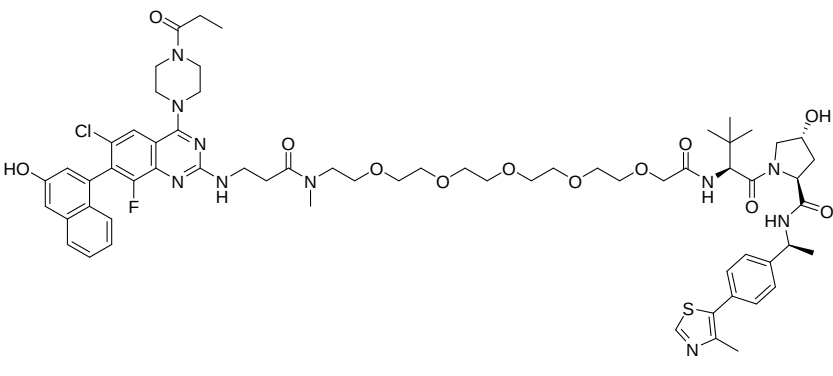
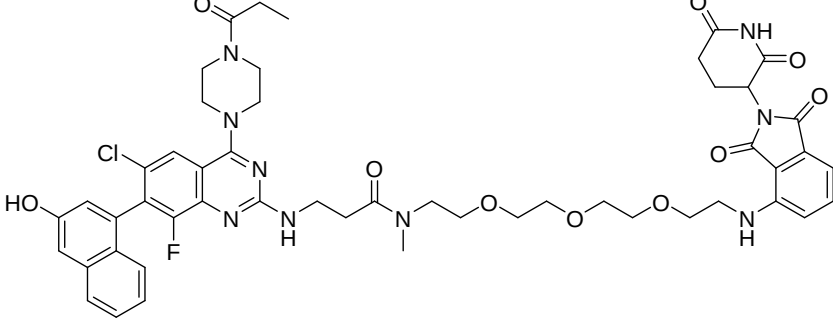
11. El compuesto bifuncional de acuerdo con cualquiera de las reivindicaciones 1 a 5, donde L es:

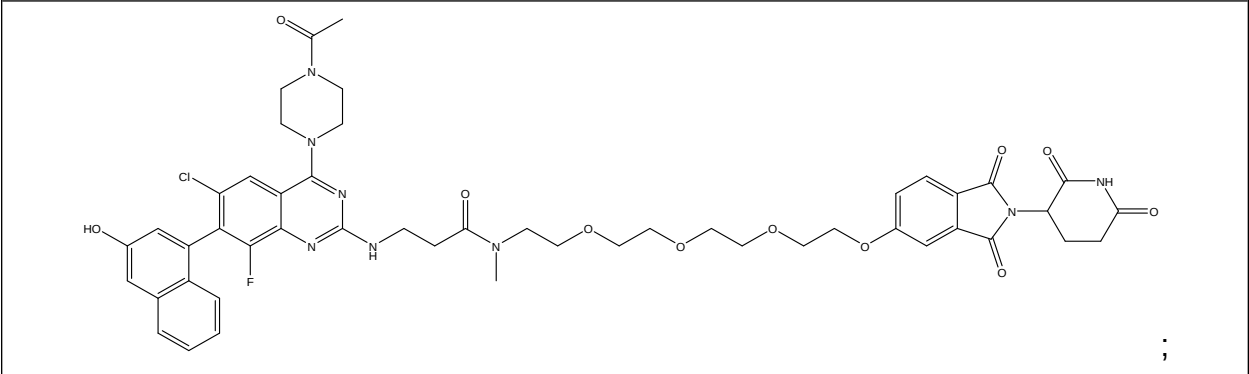
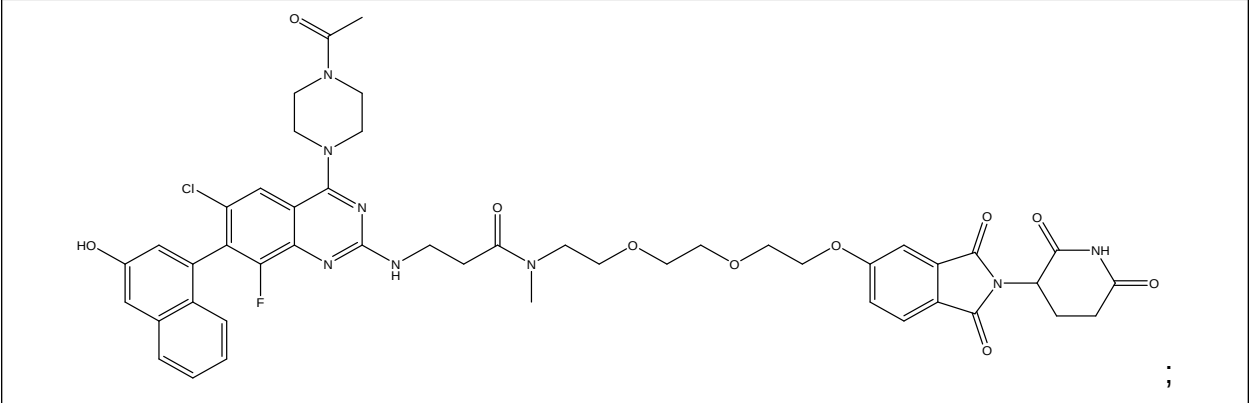
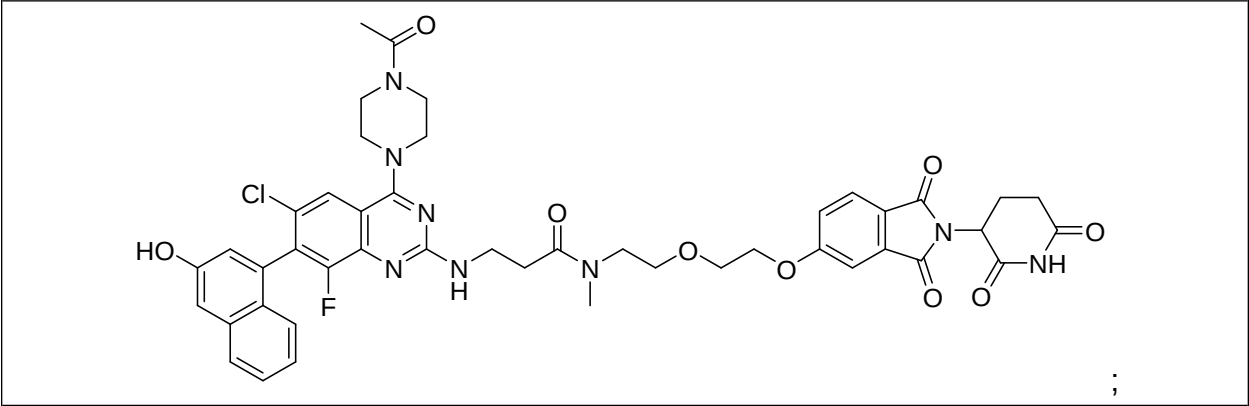
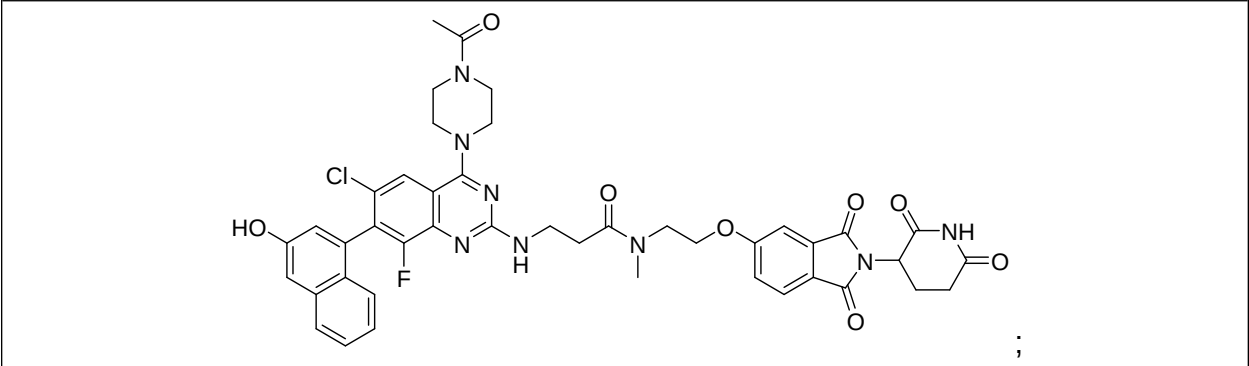
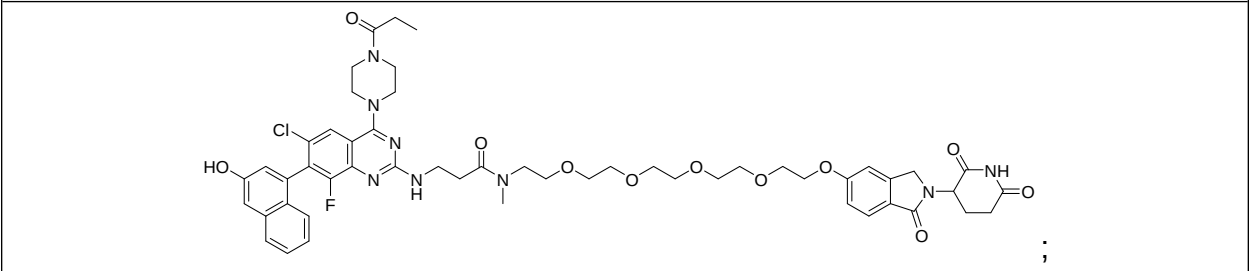
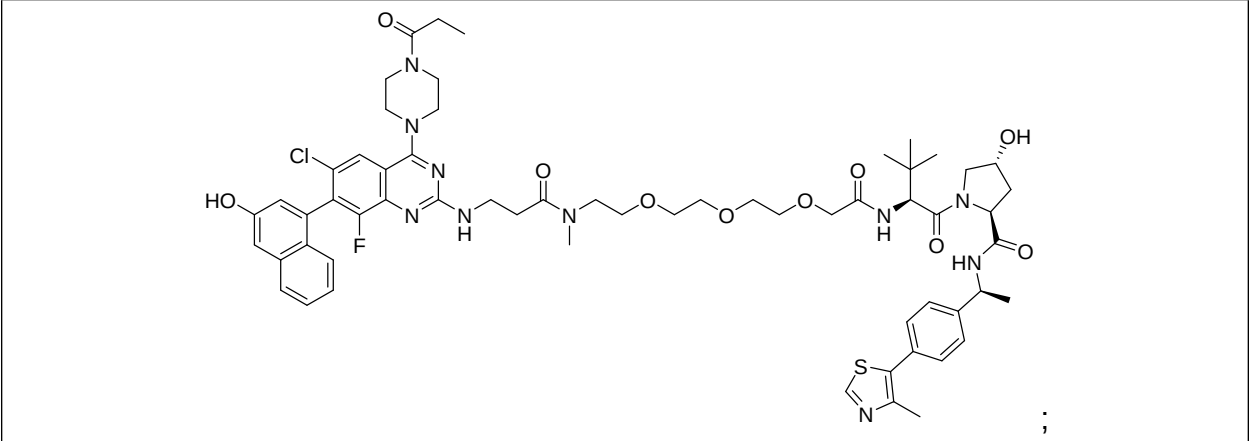


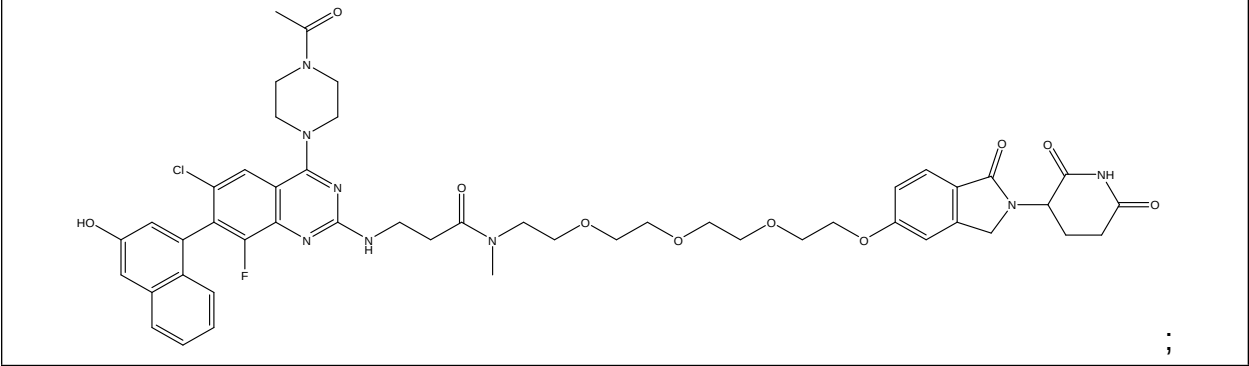
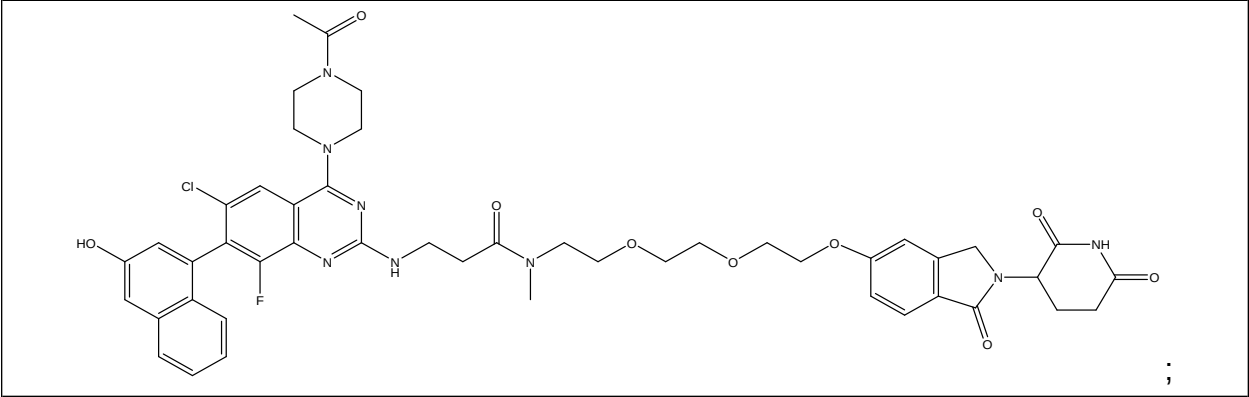
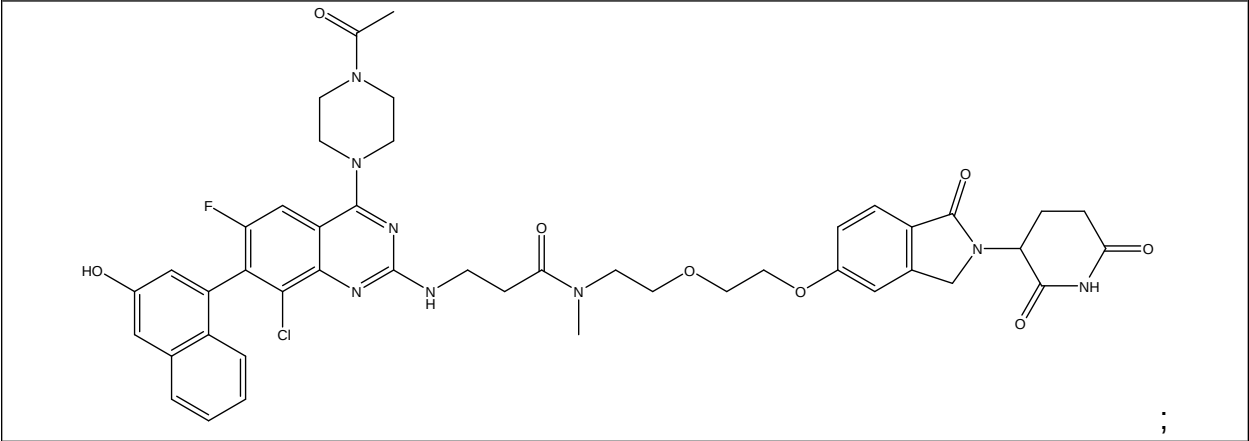
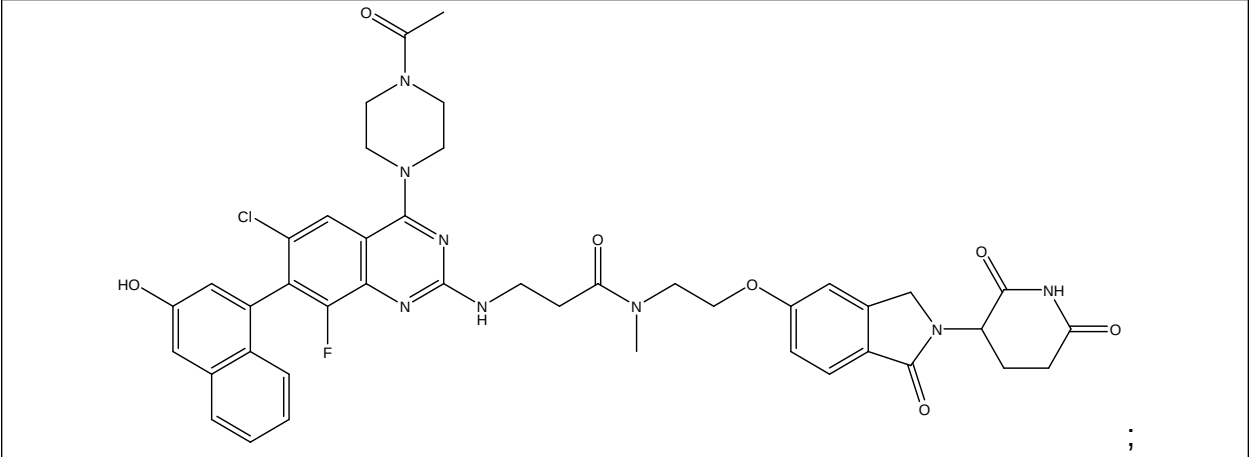
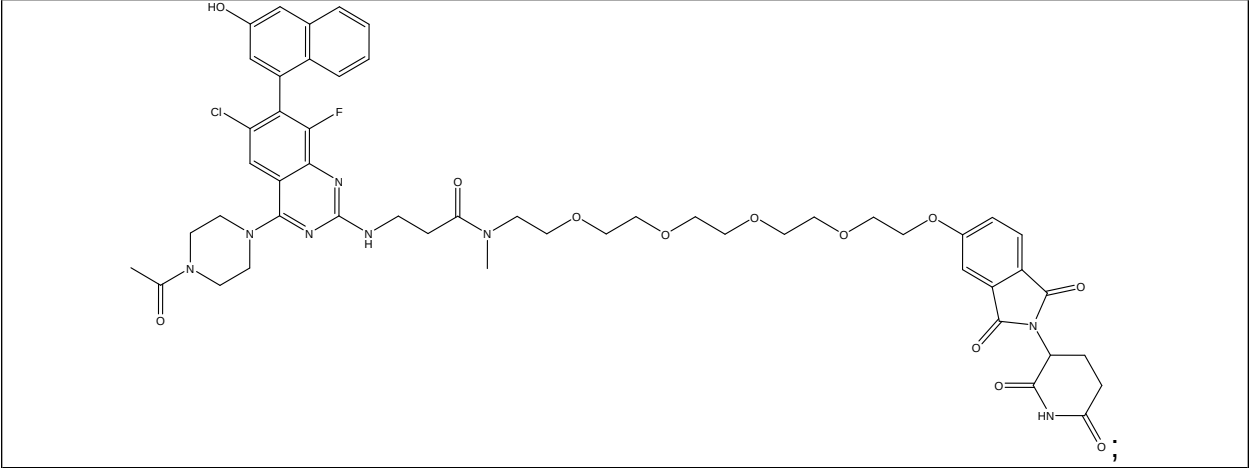
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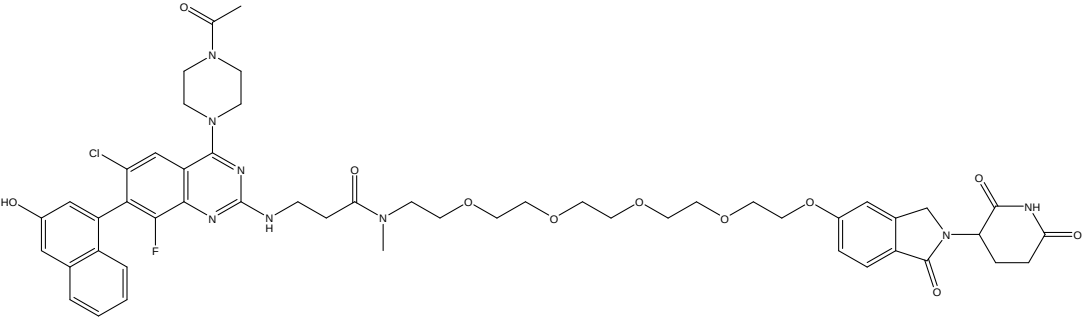
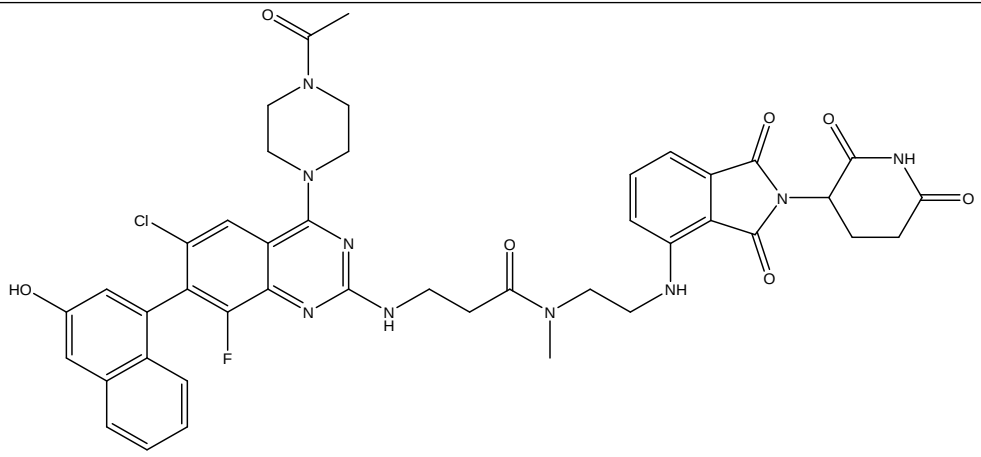
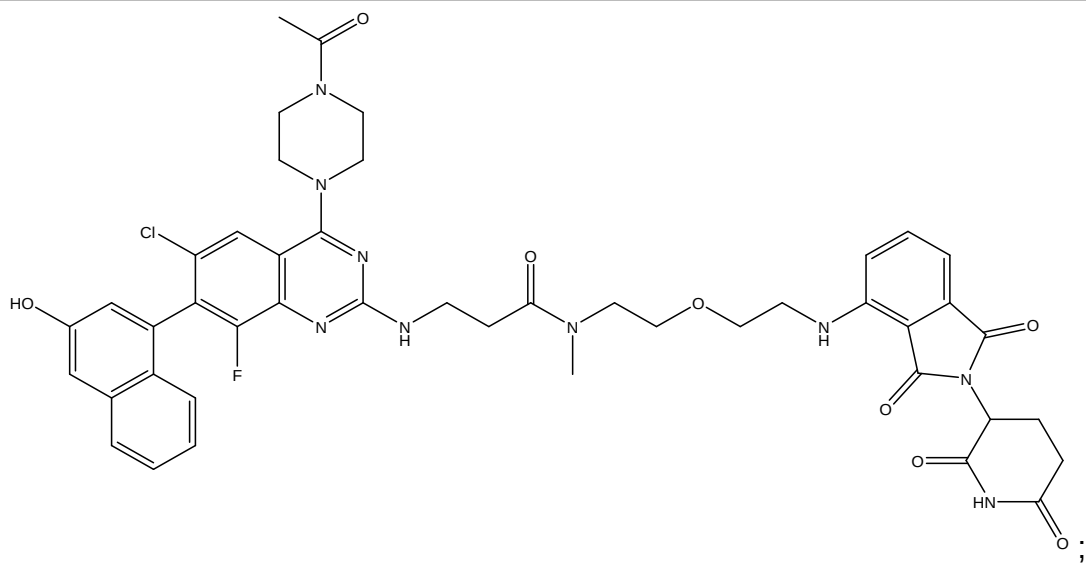
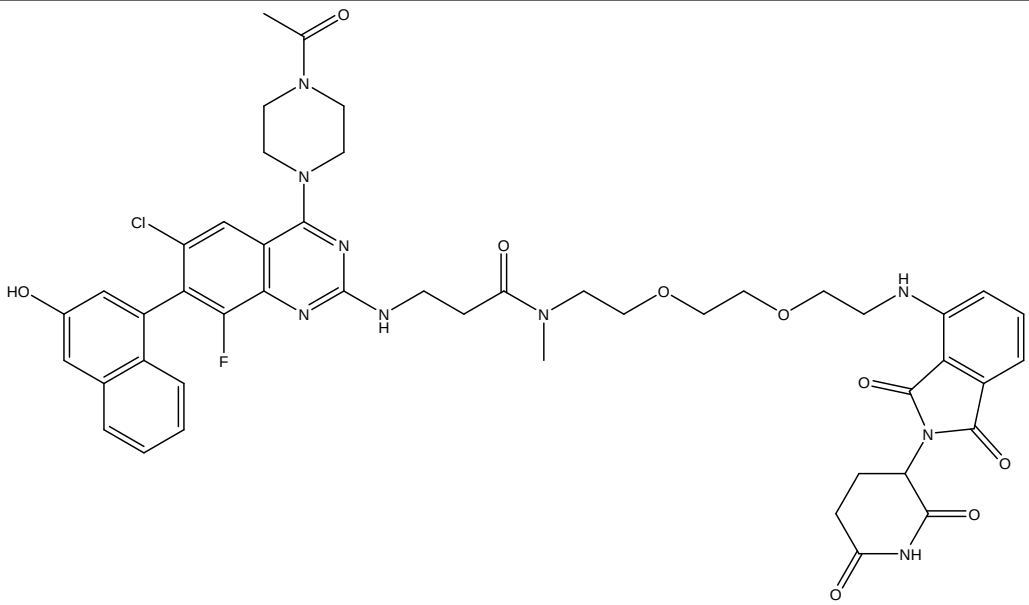
cada uno de W^{L1} y W^{L2} de manera independiente está ausente o es arilo, heteroarilo, cíclico, heterocíclico, alquilo C₁₋₆ y opcionalmente uno o más átomos de C se remplazan

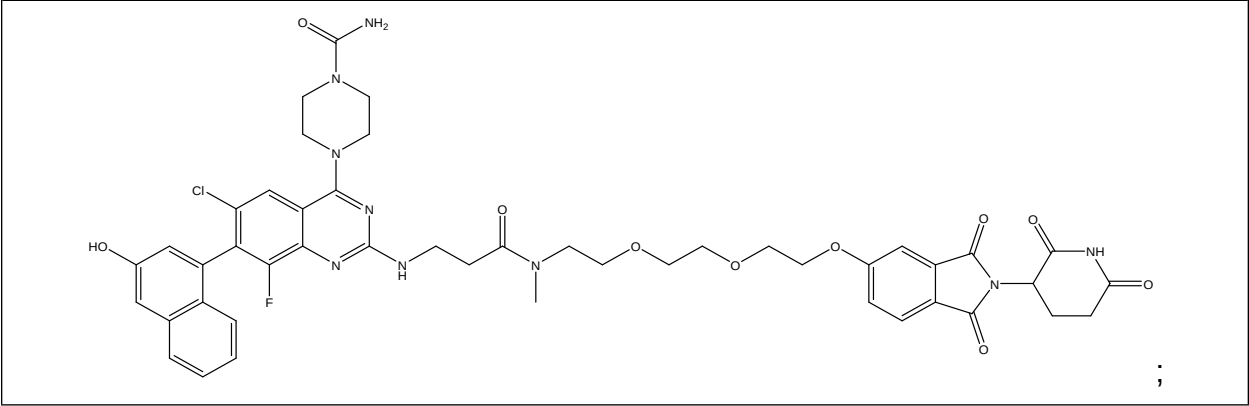
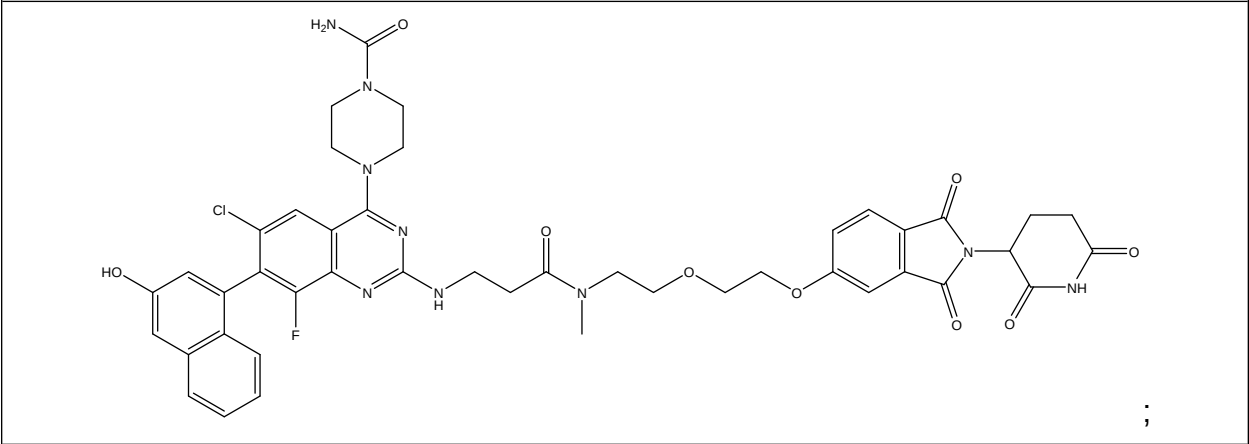
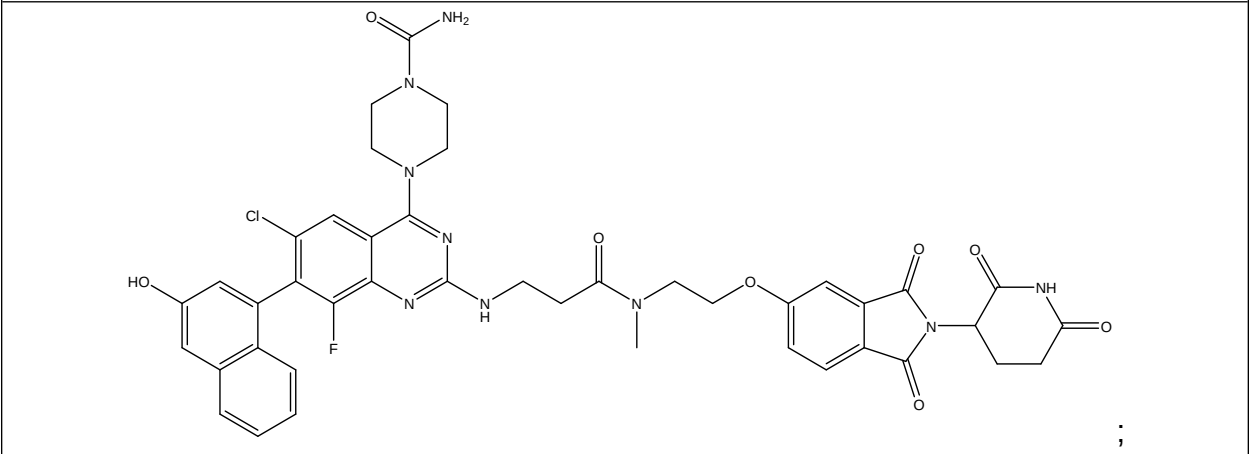
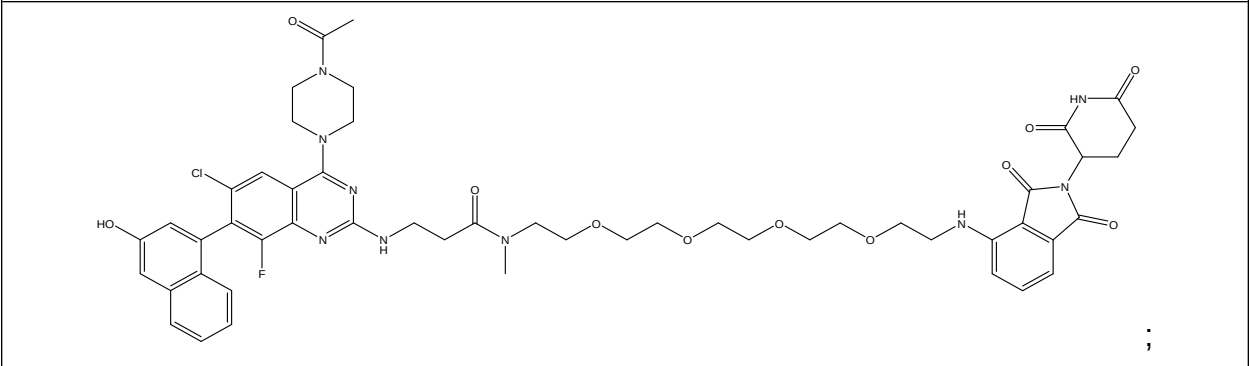
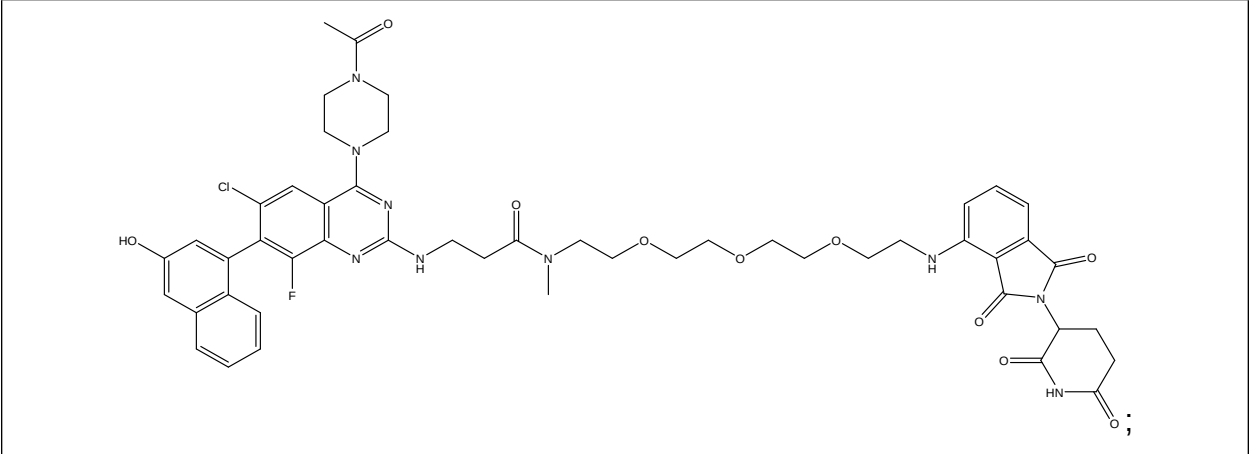


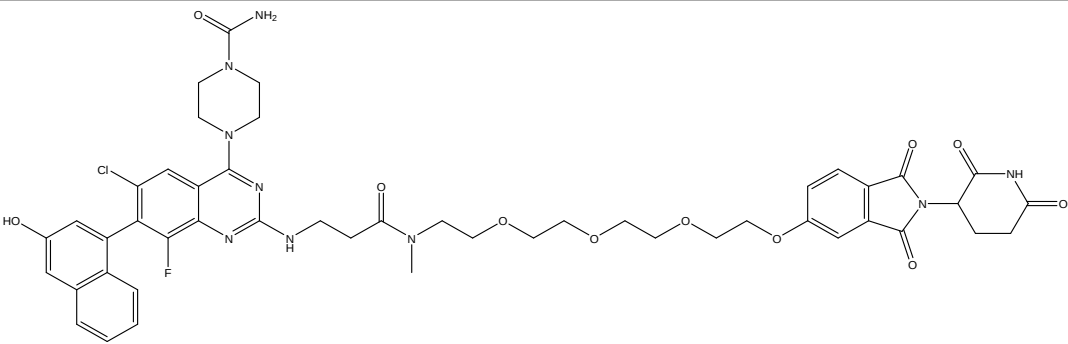
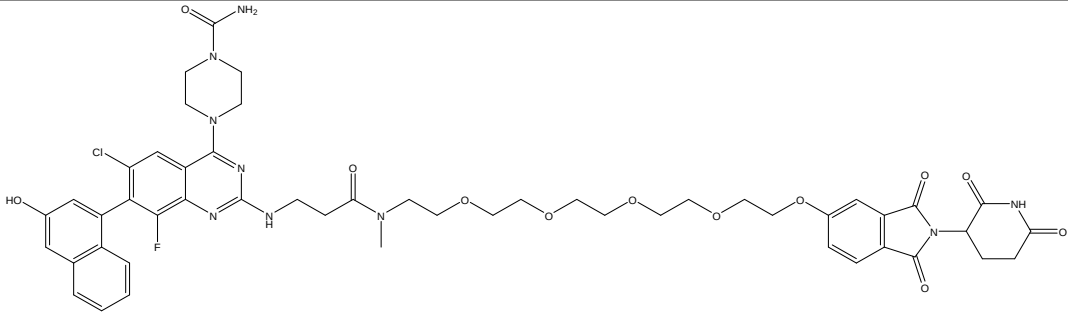
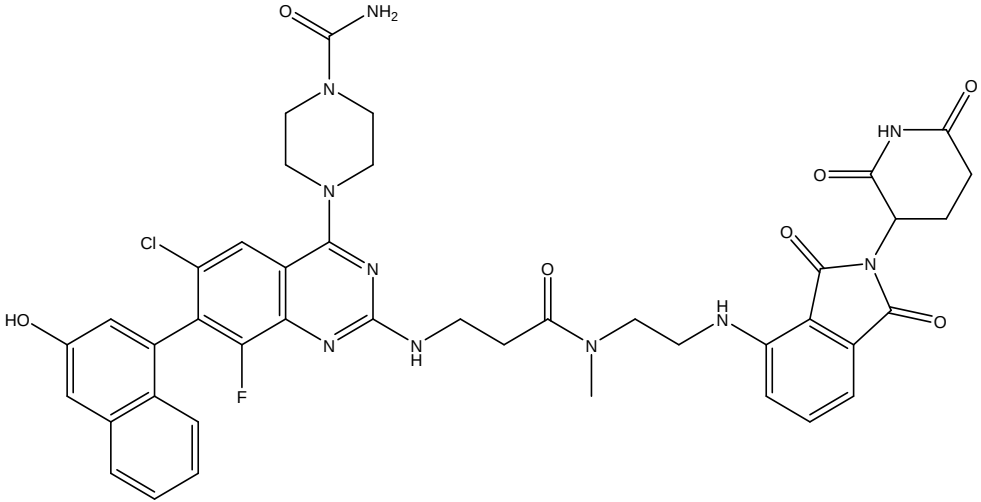
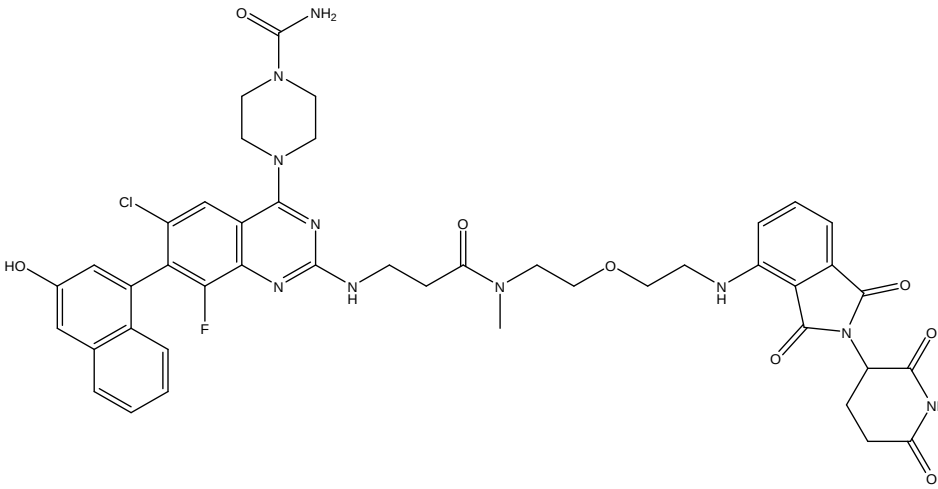
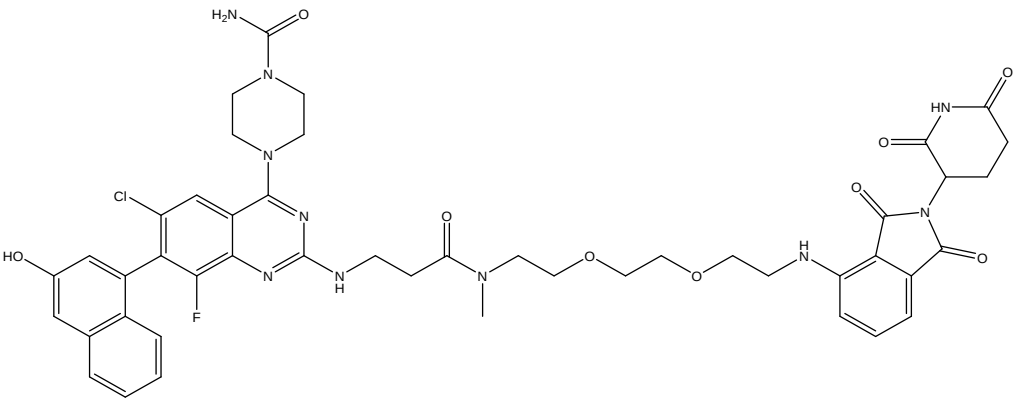
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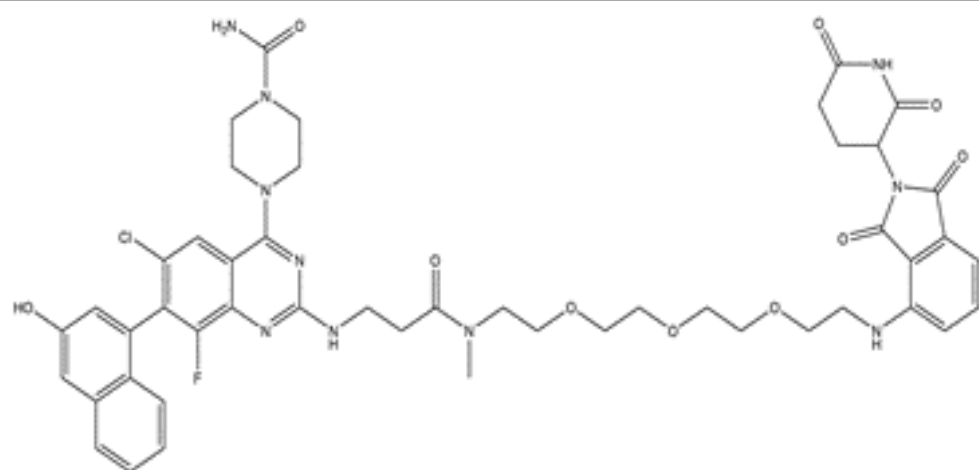




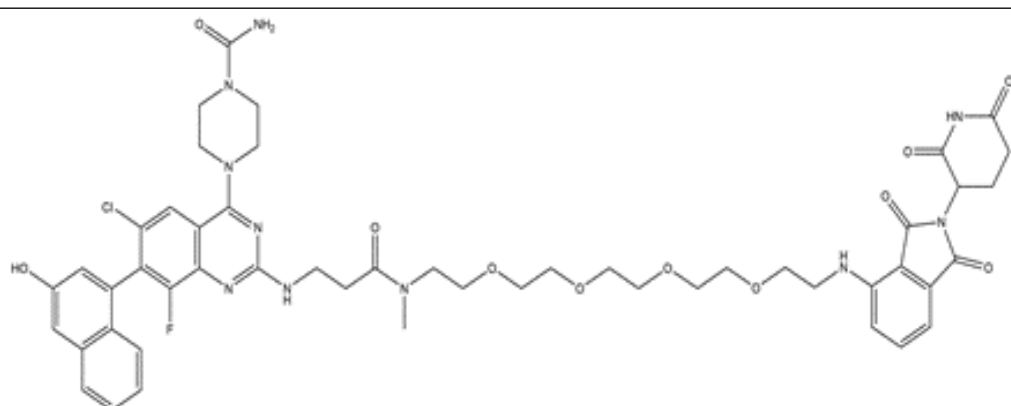
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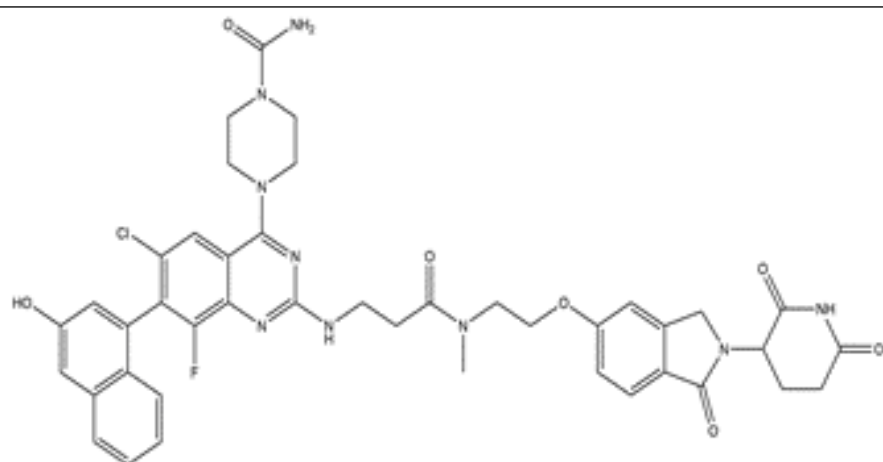
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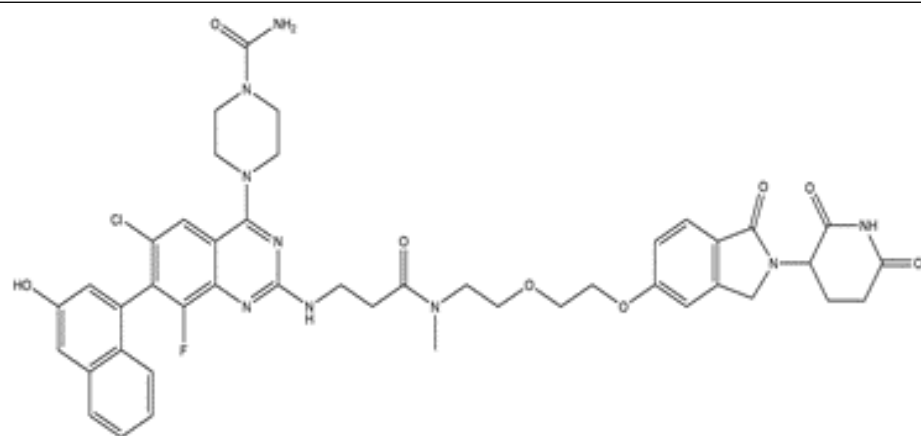
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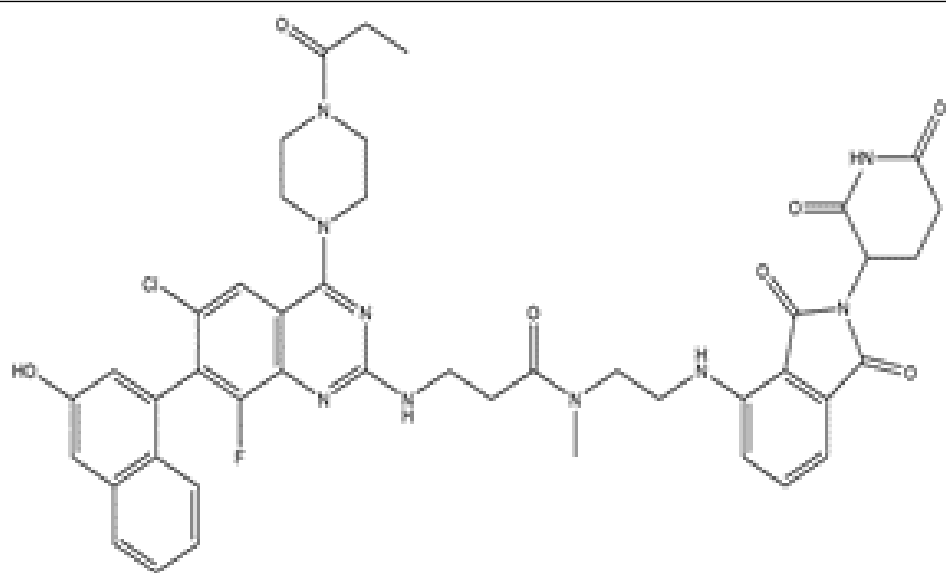
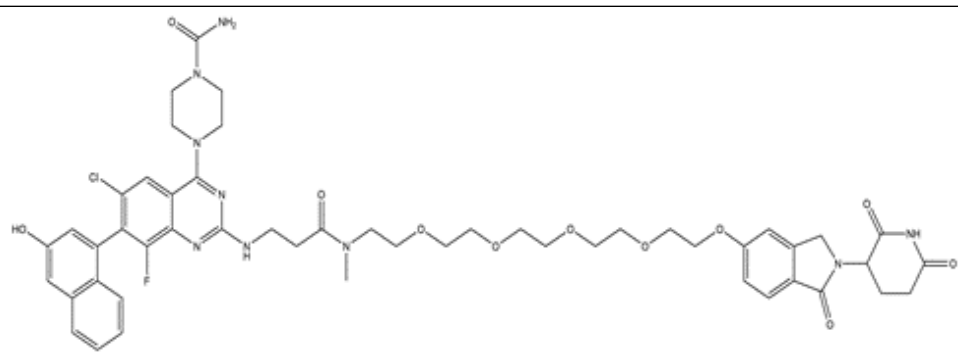
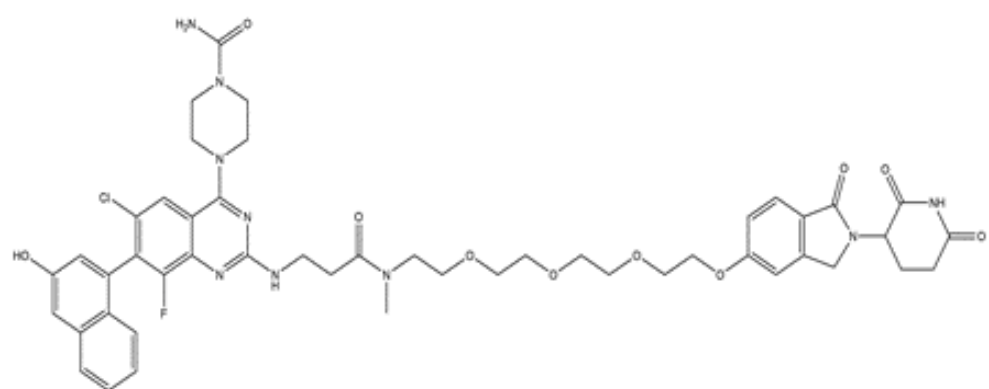
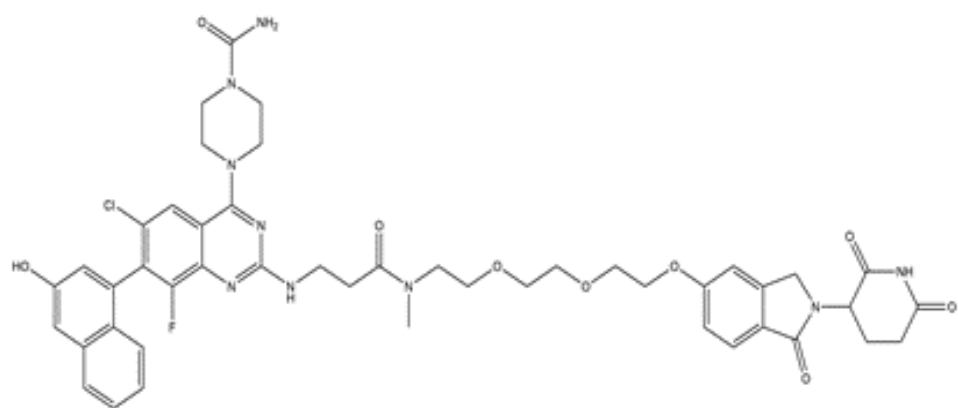
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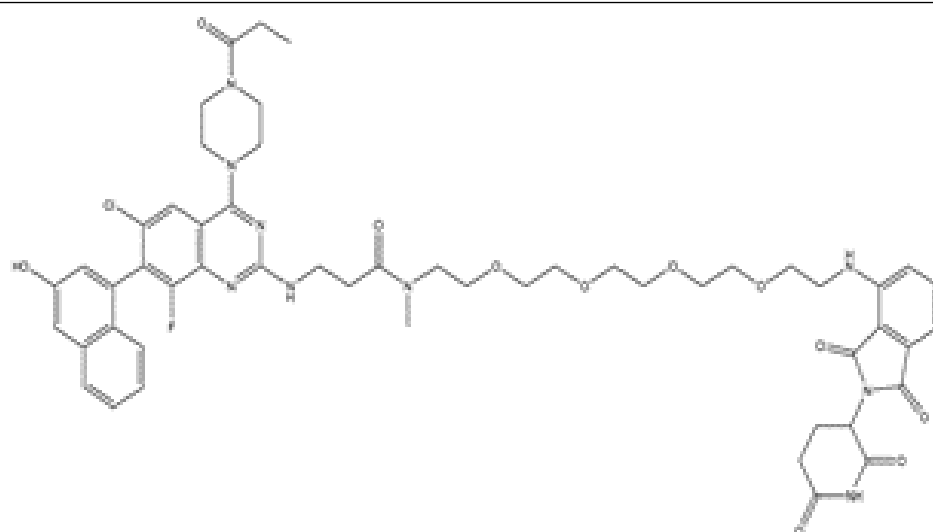
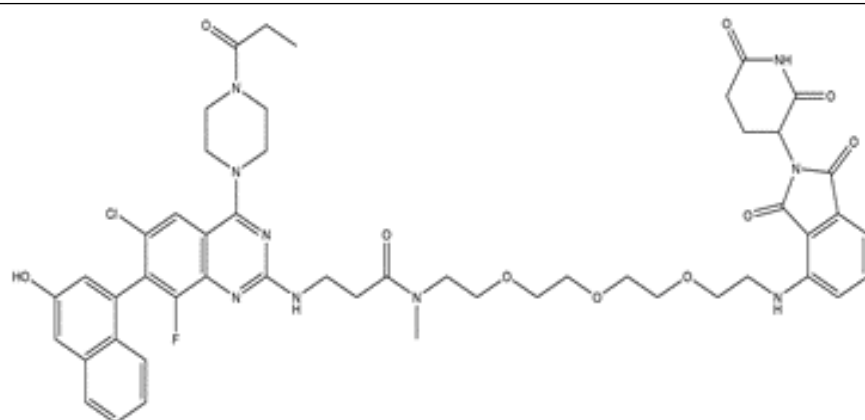
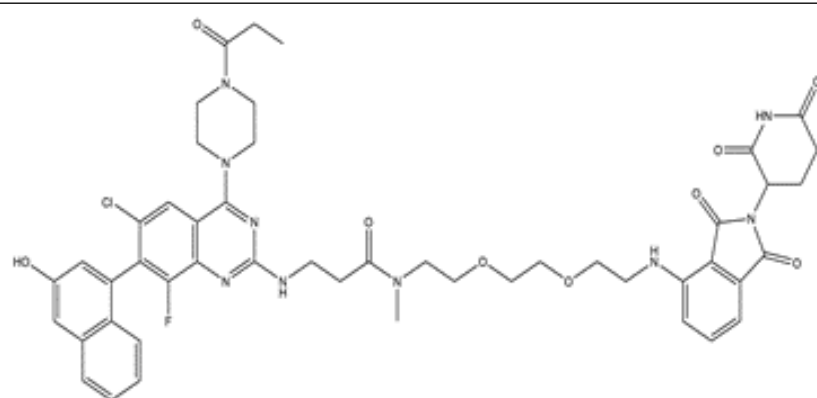
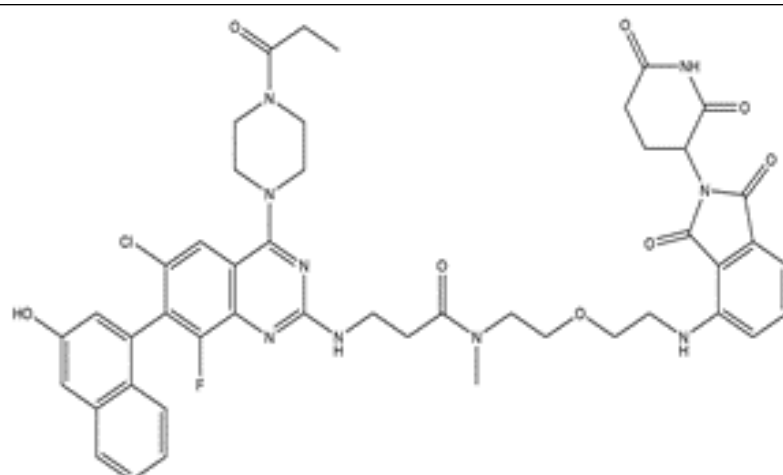


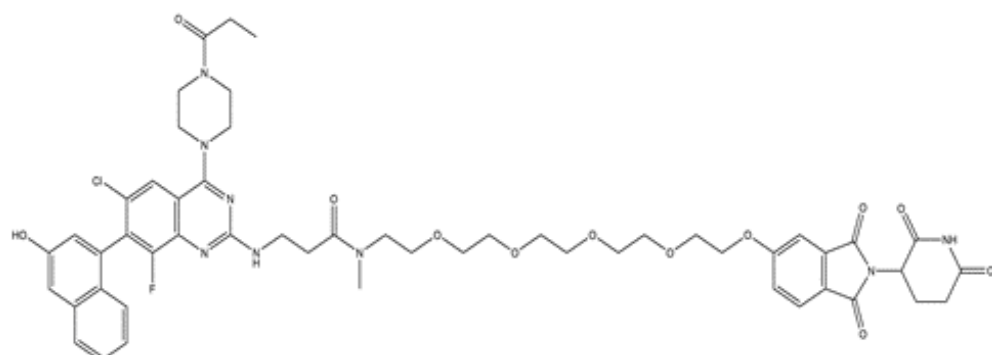
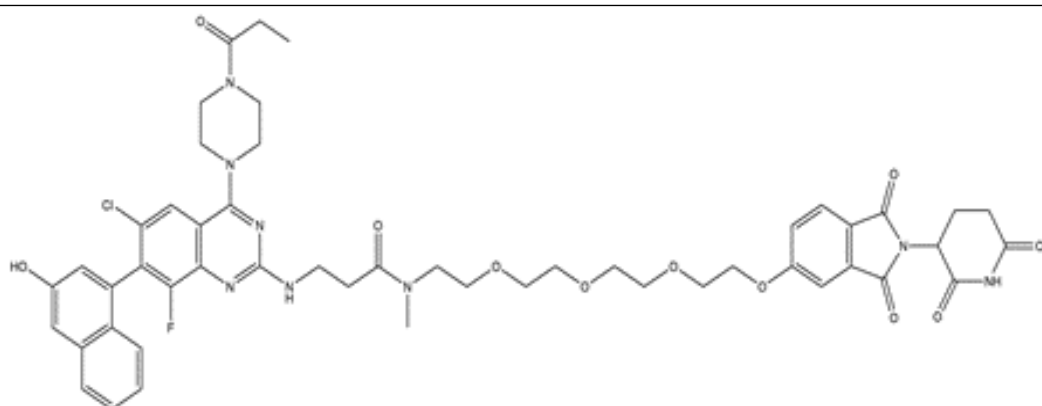
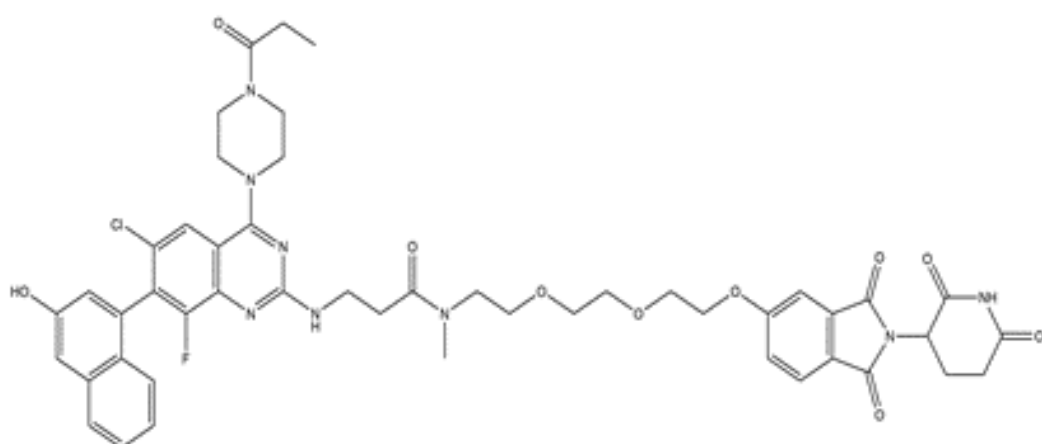
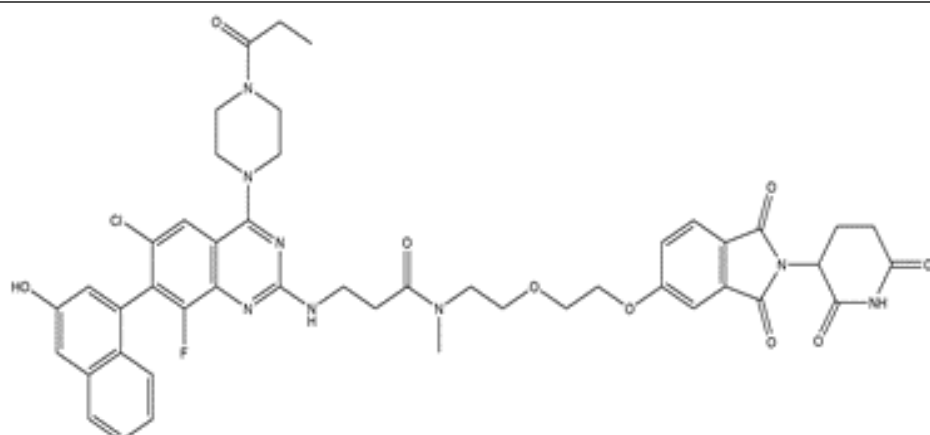
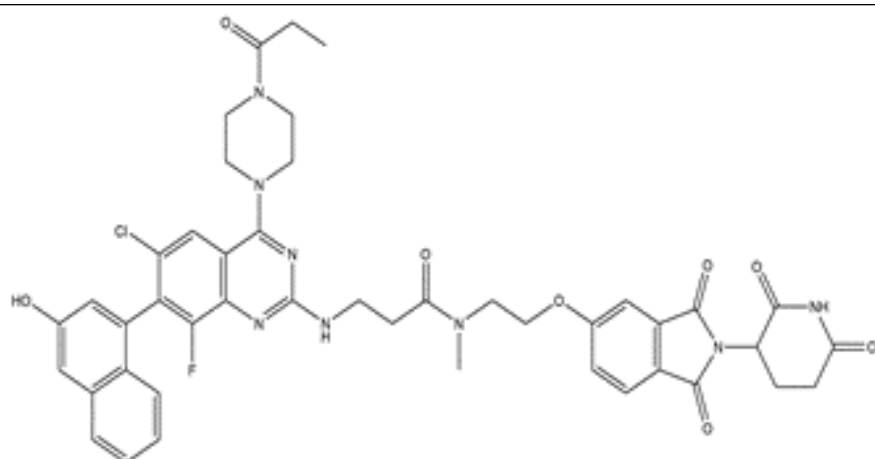
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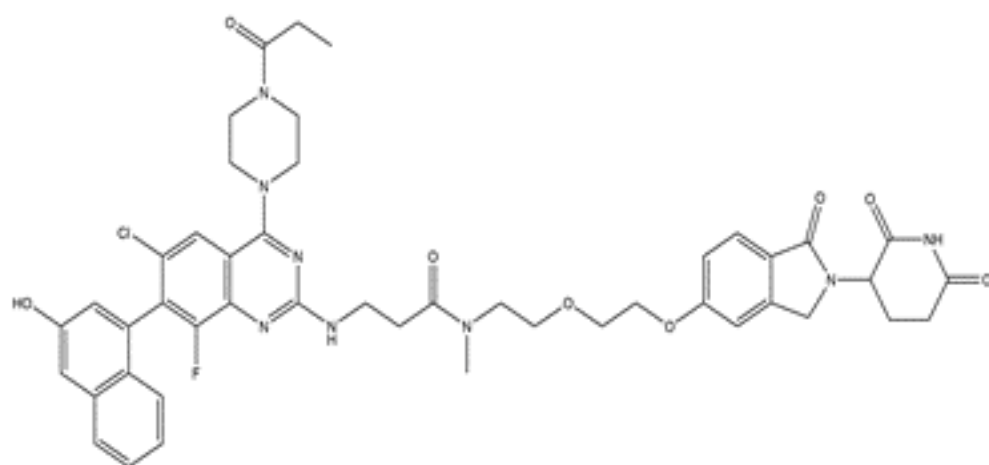


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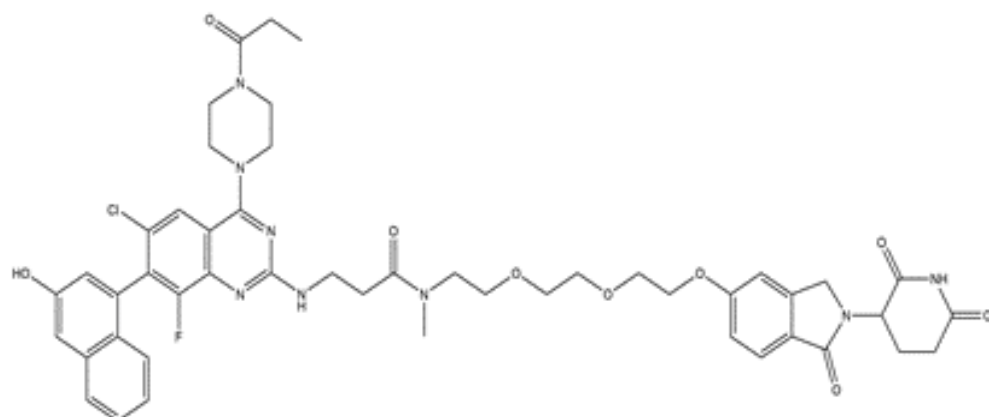




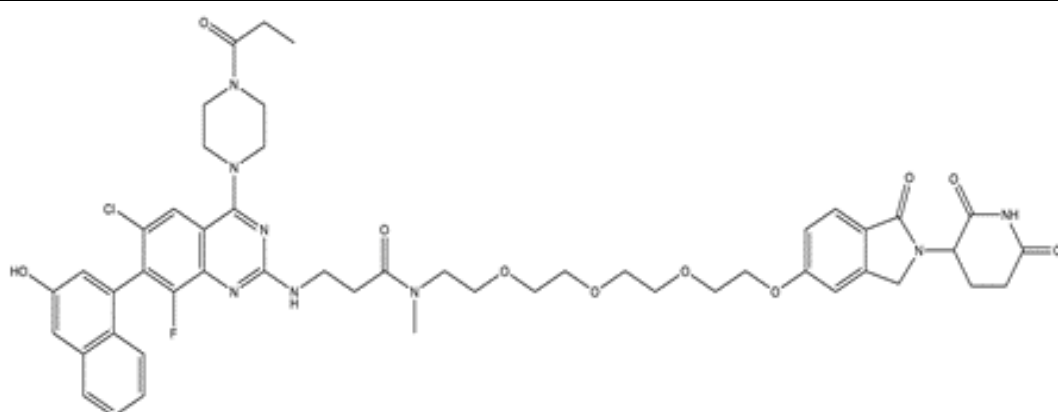




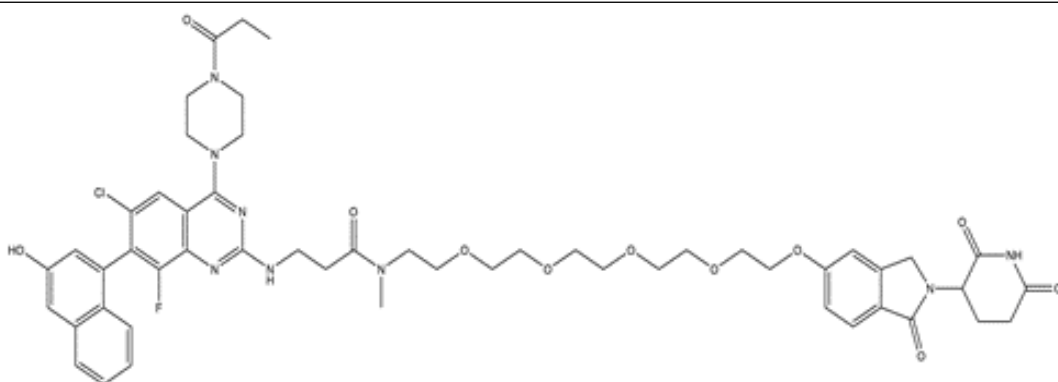
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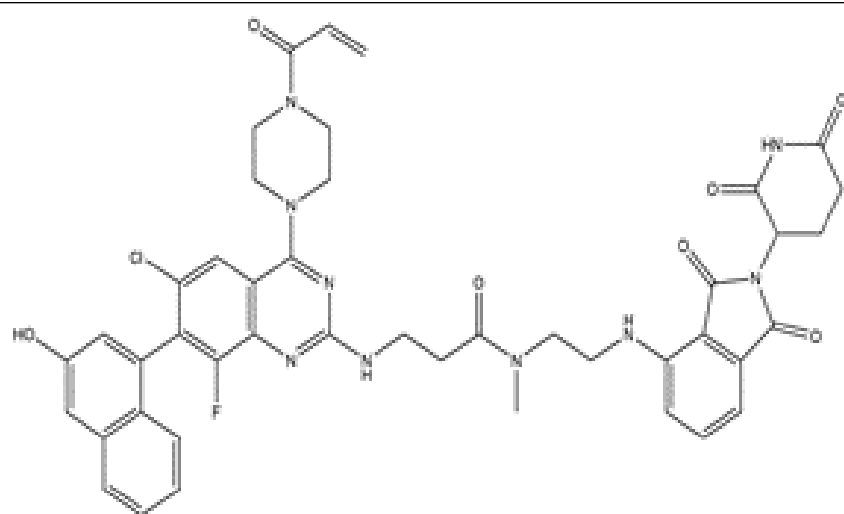
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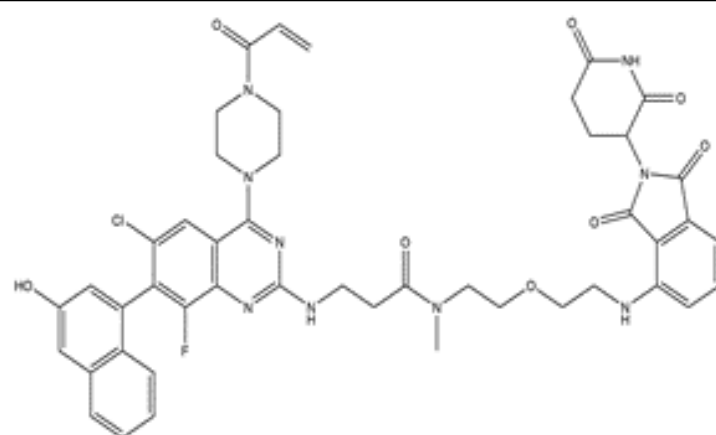
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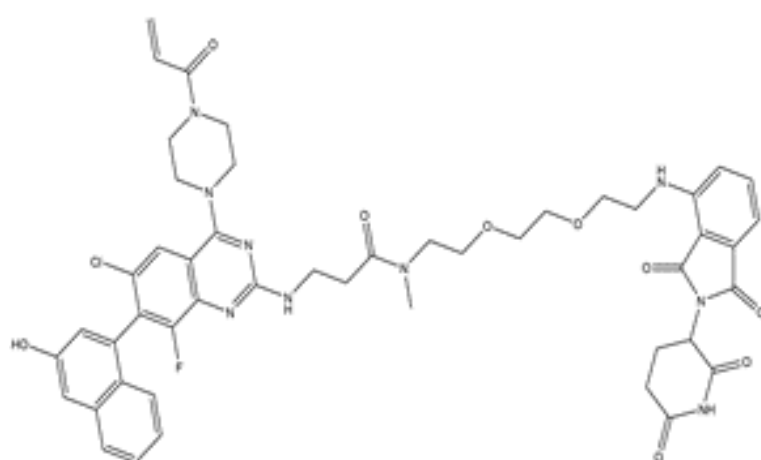
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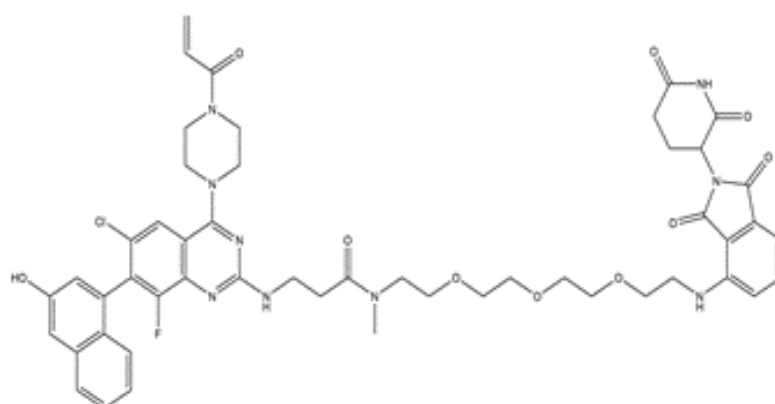
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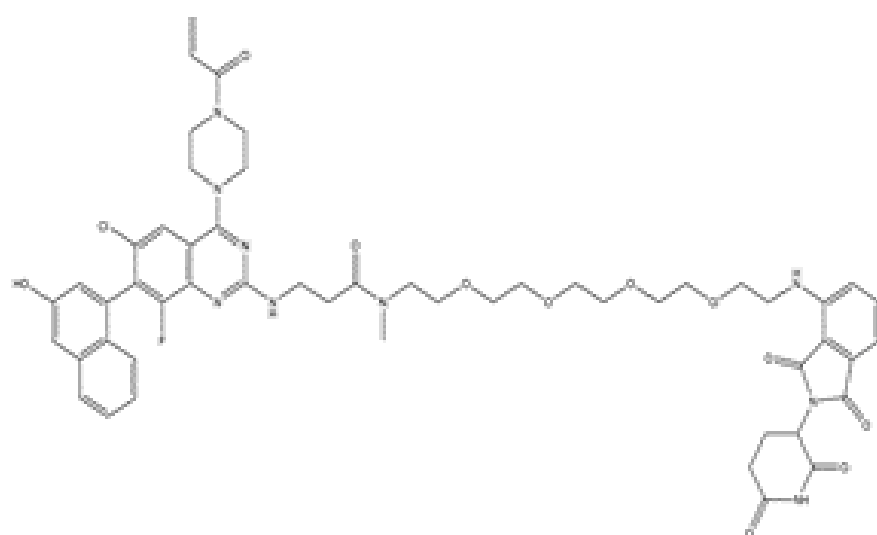
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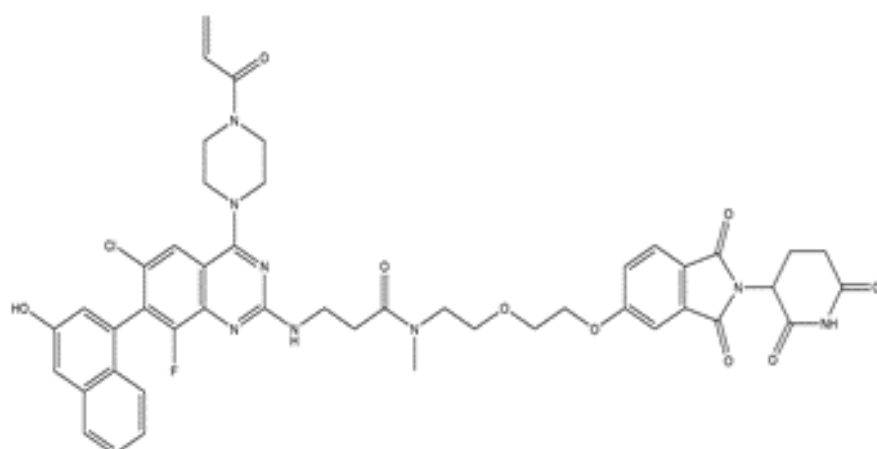
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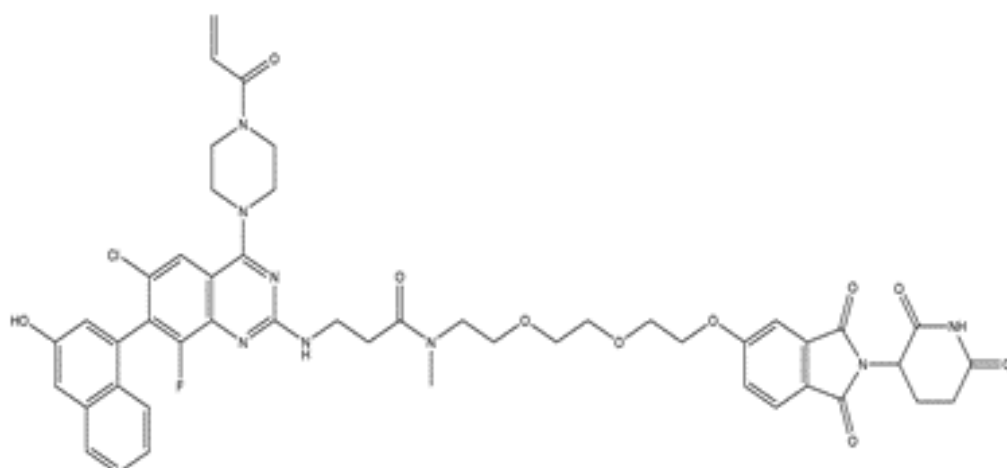
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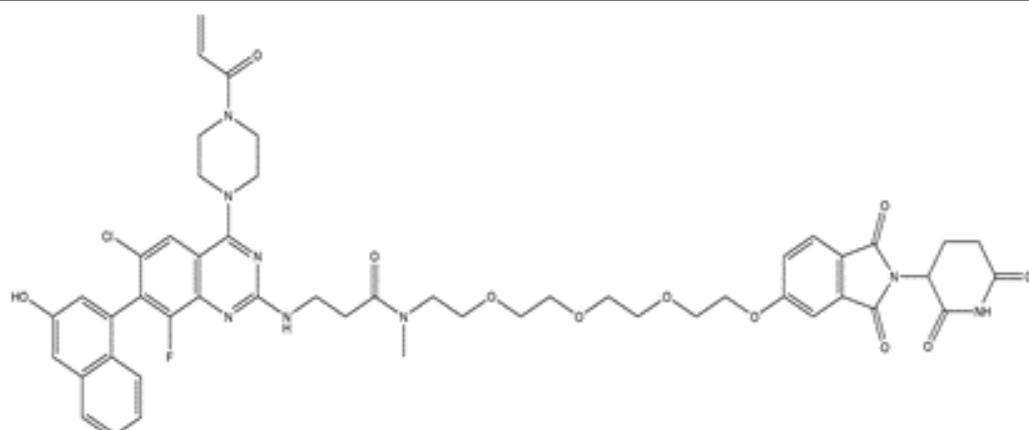
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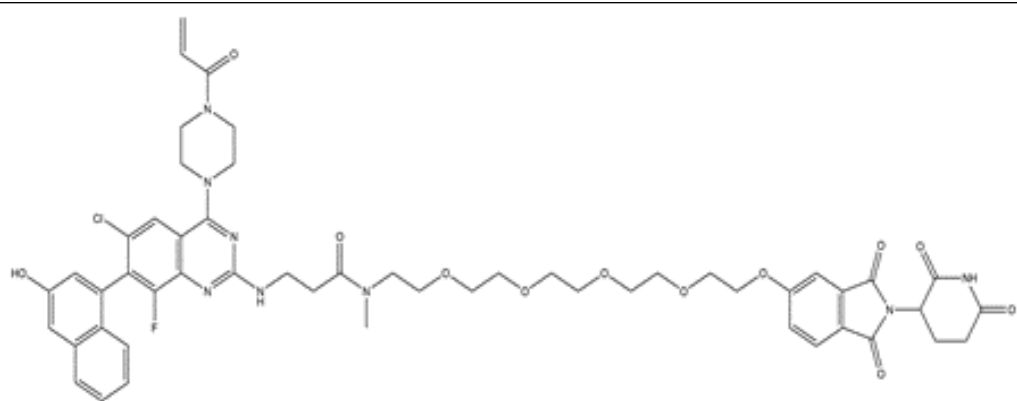
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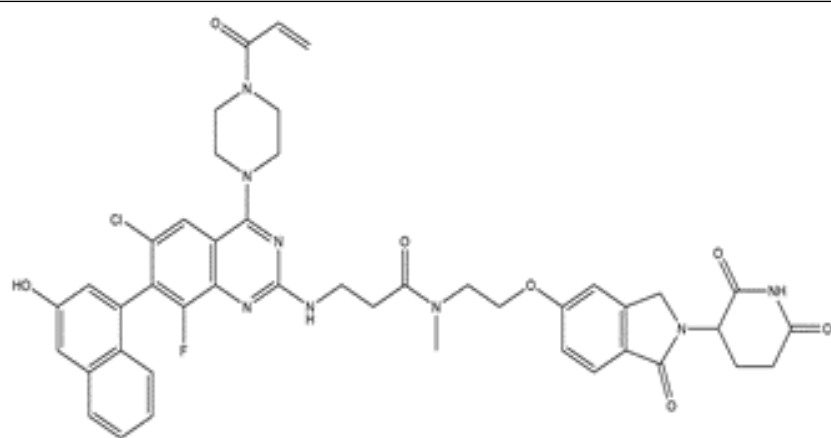
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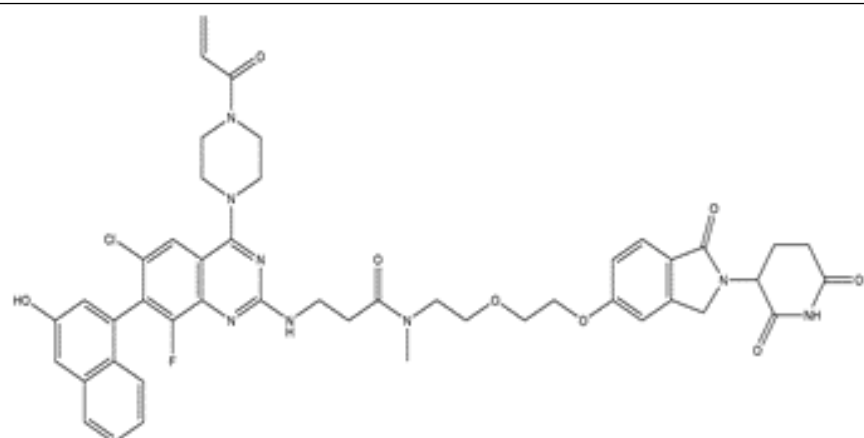
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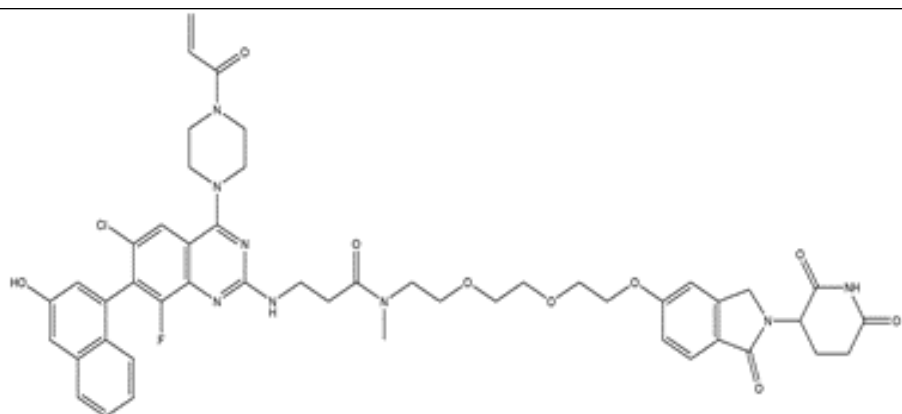
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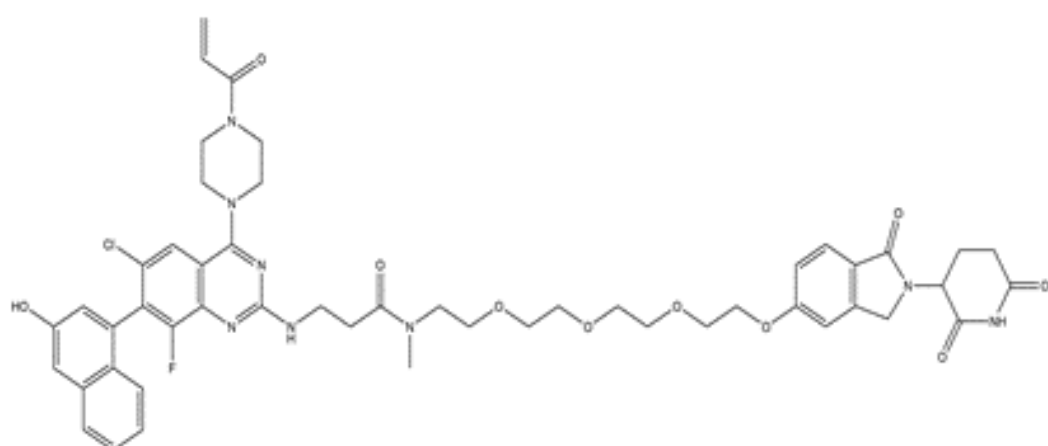
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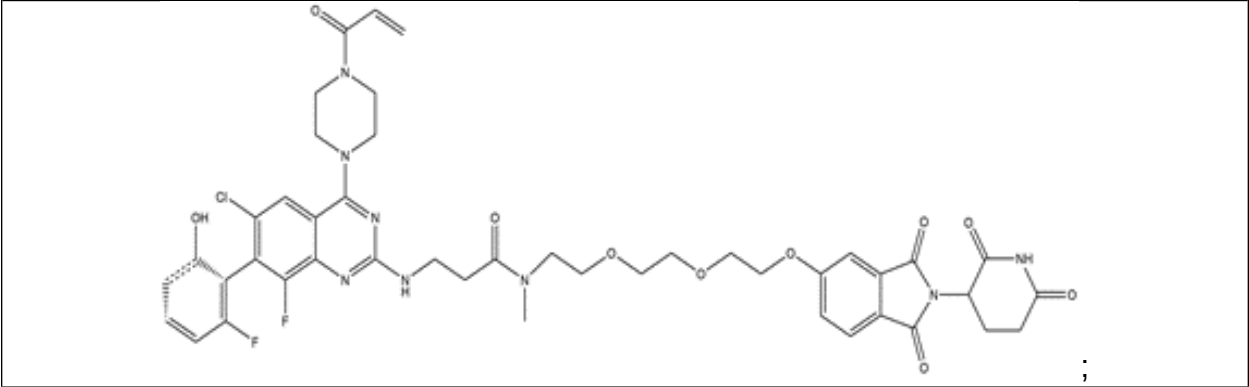
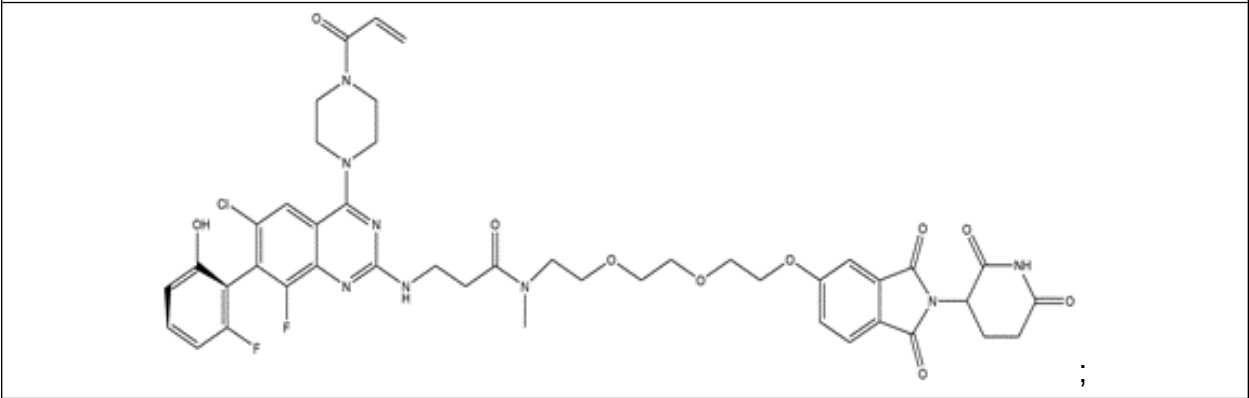
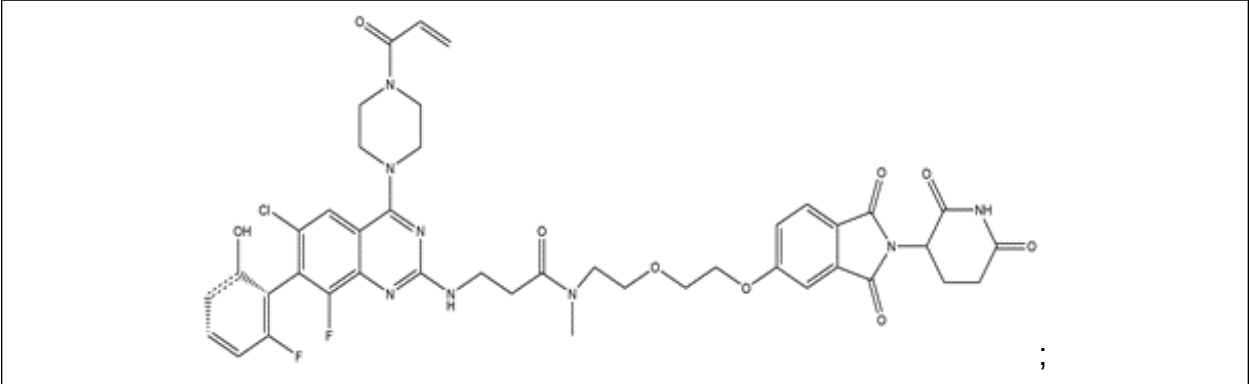
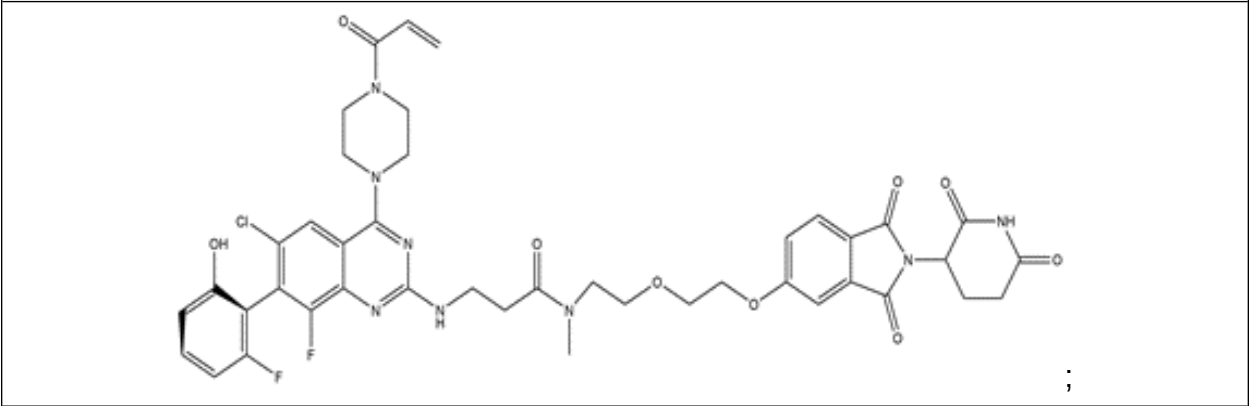
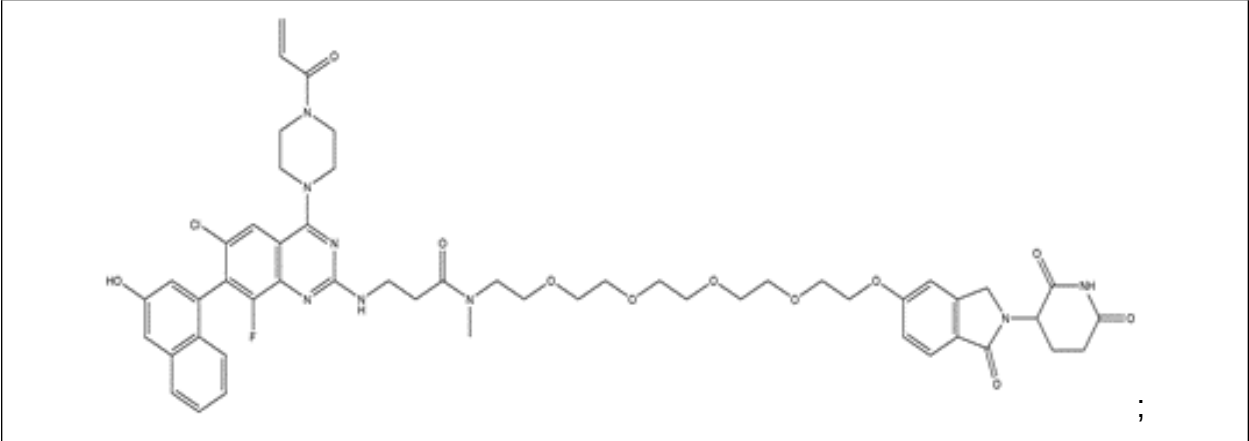
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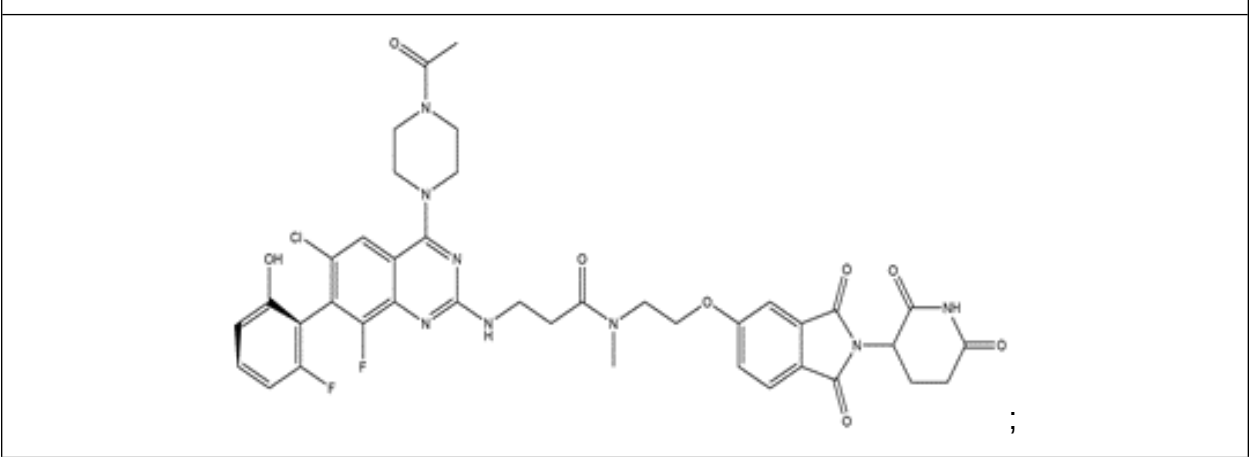
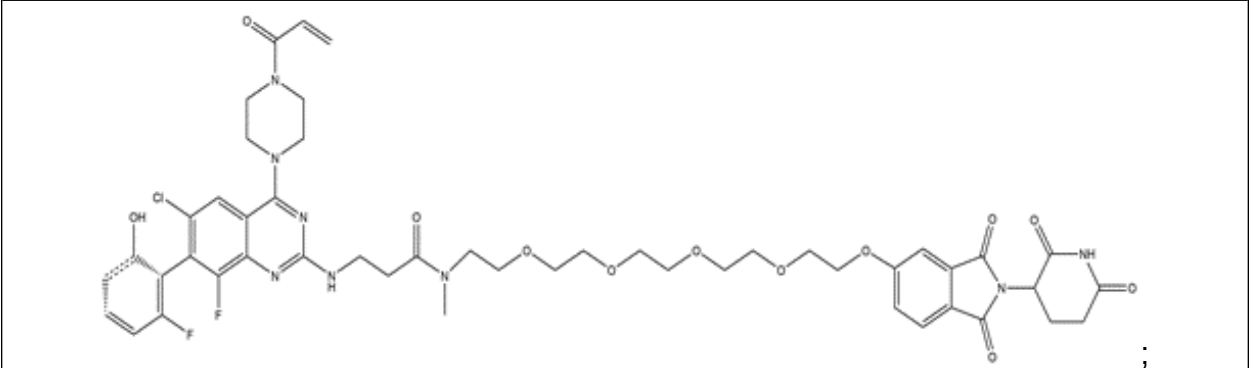
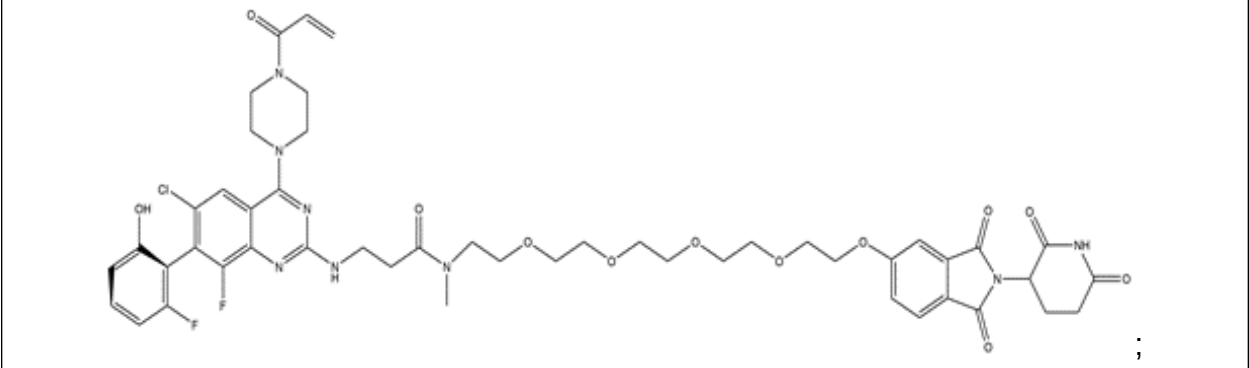
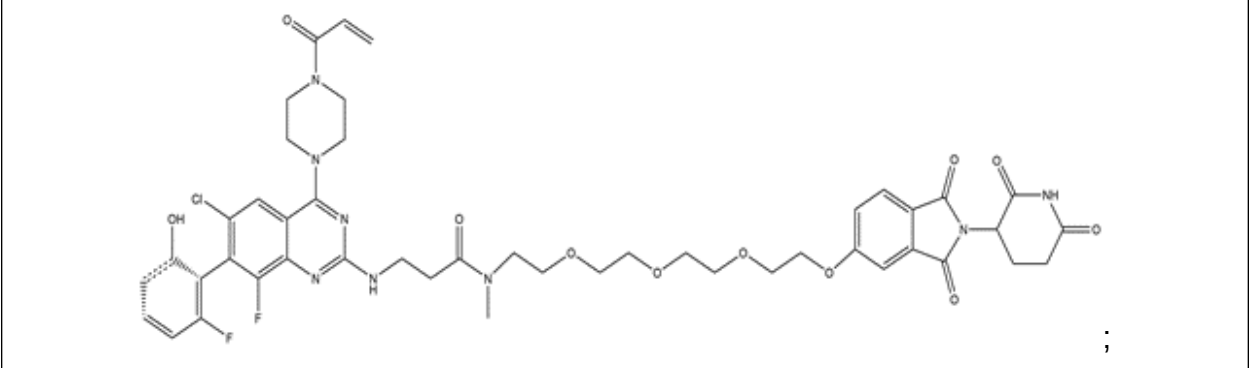
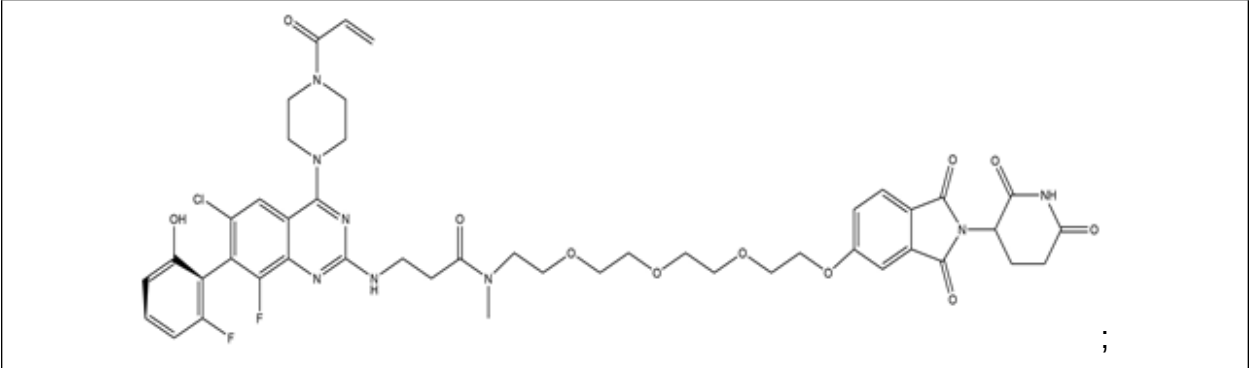


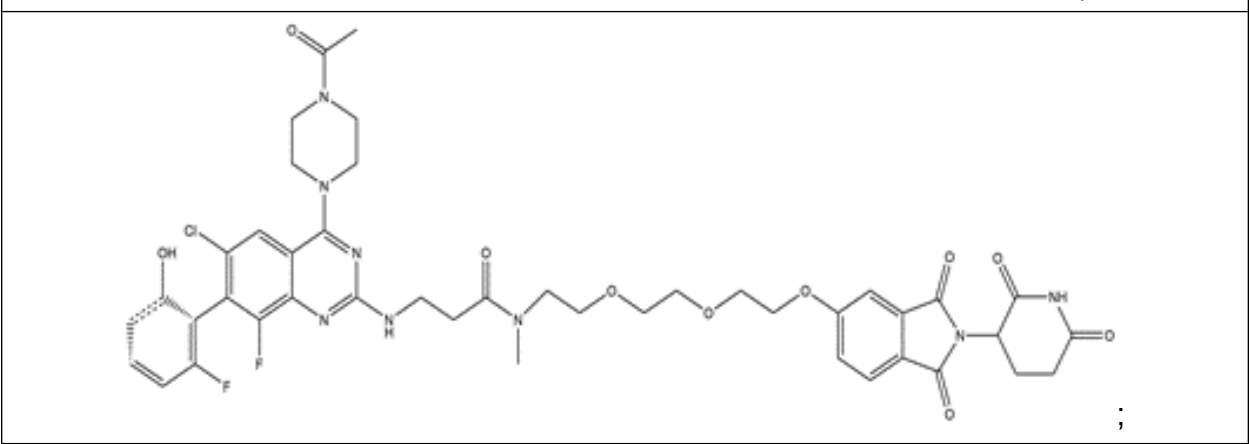
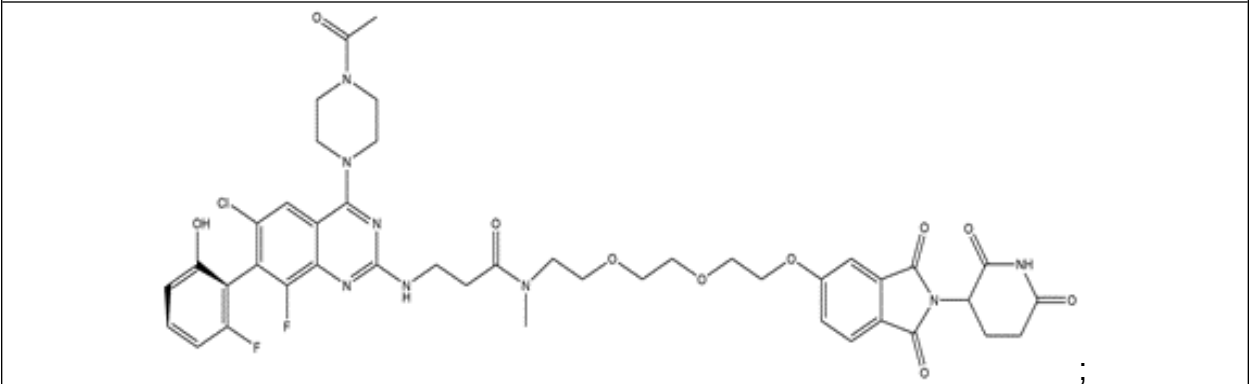
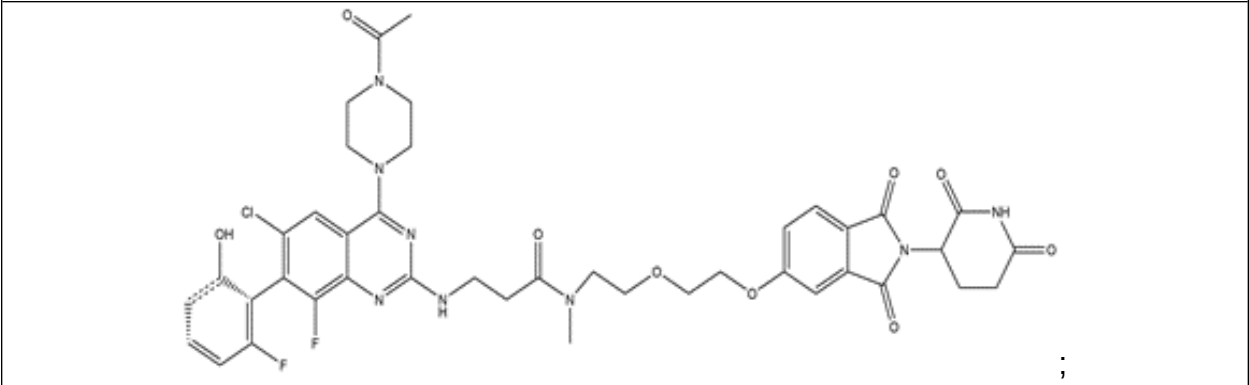
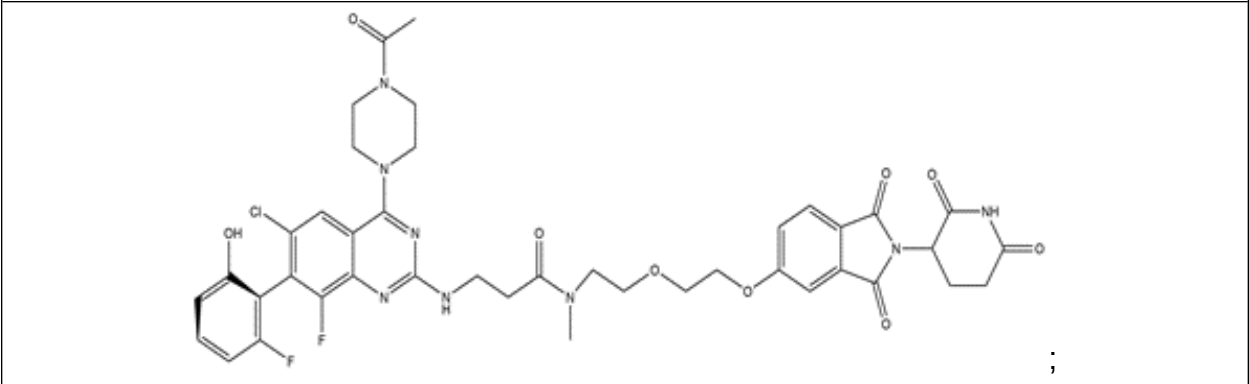
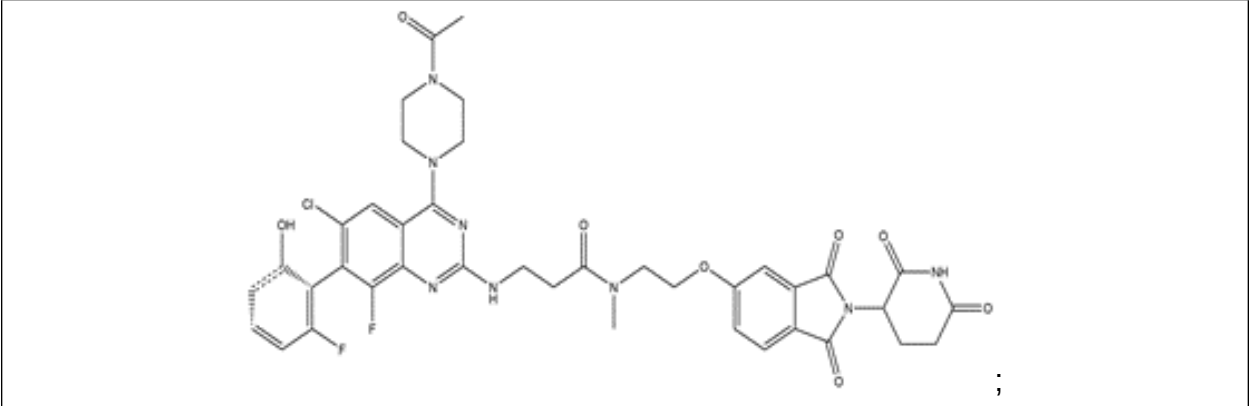
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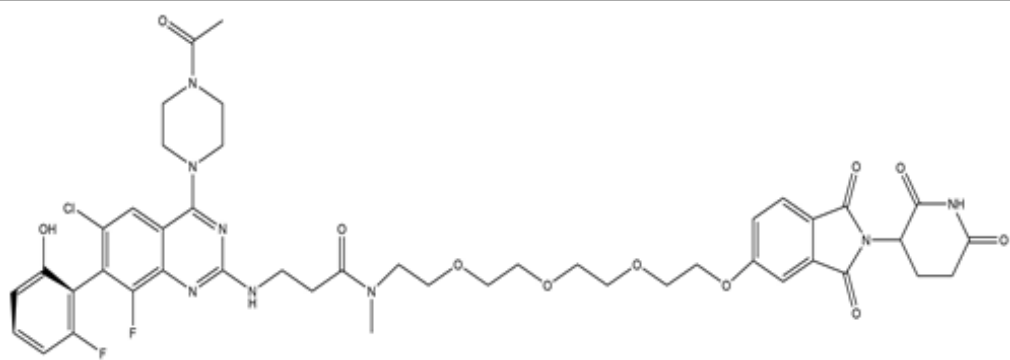


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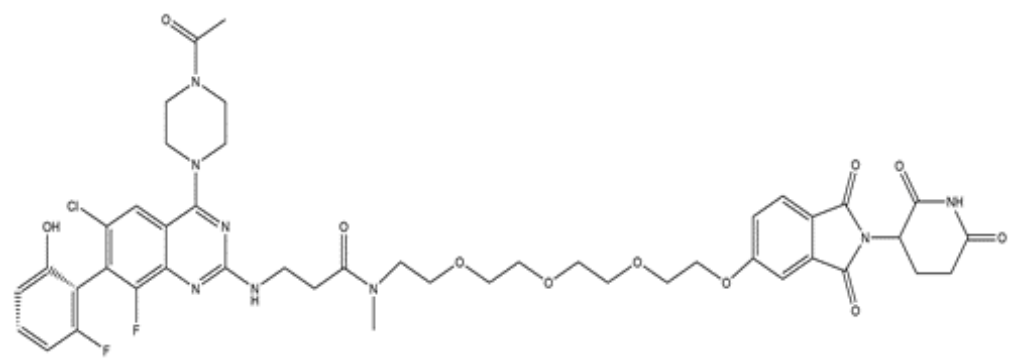




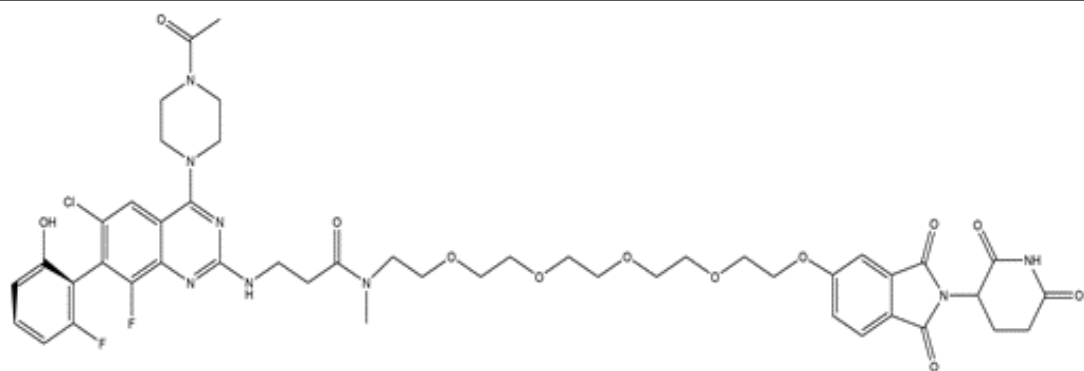




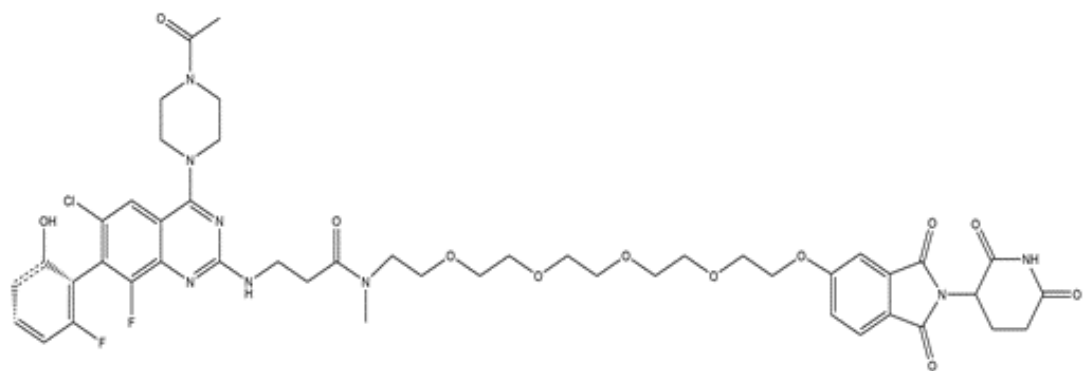
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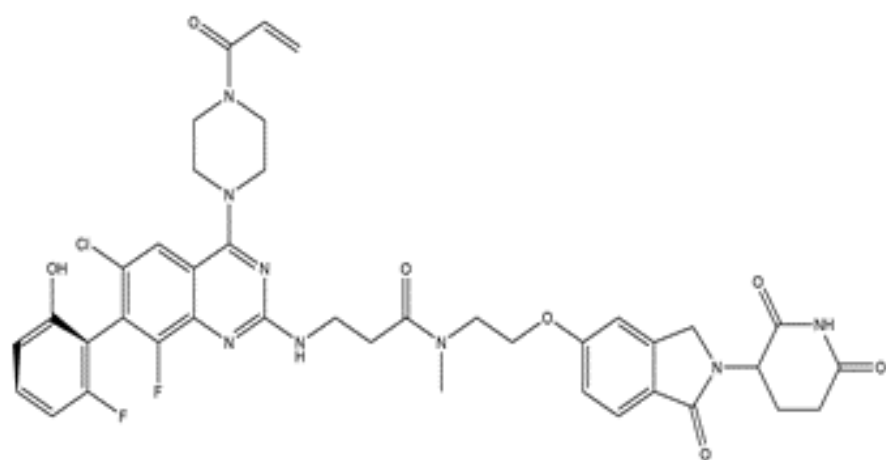
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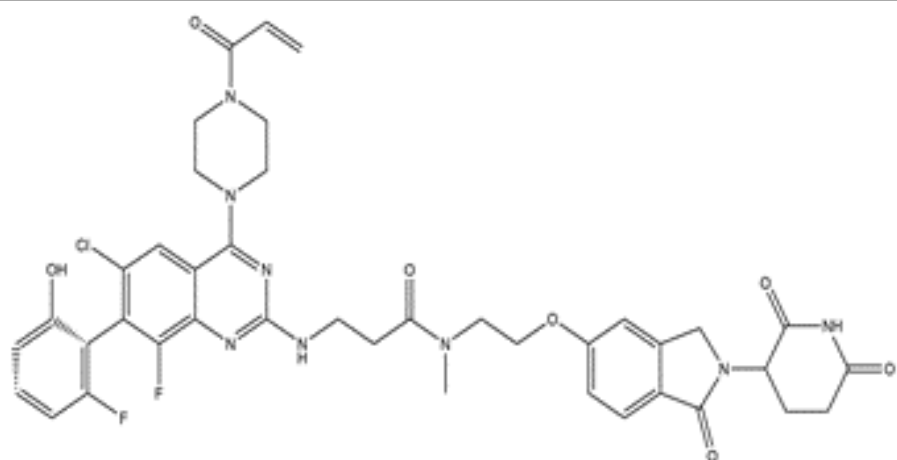
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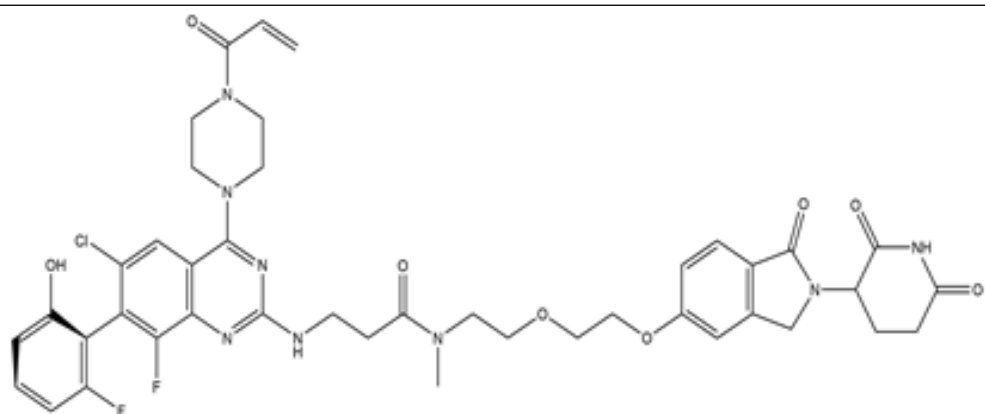
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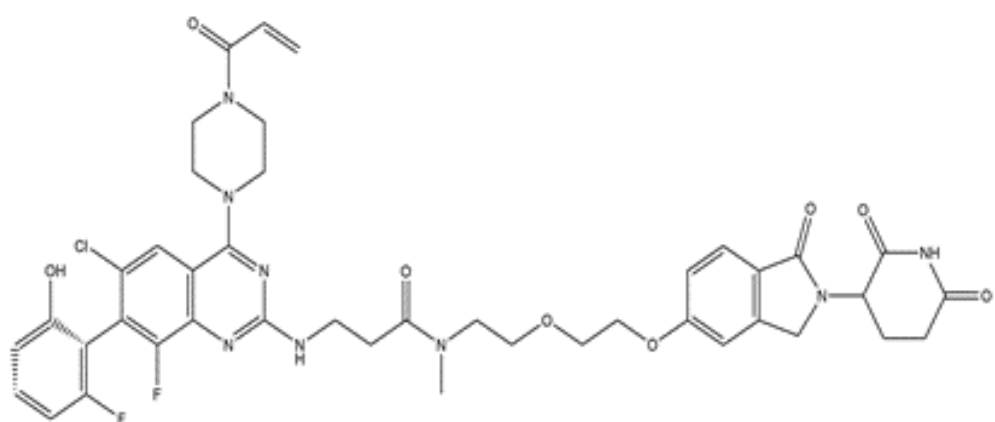
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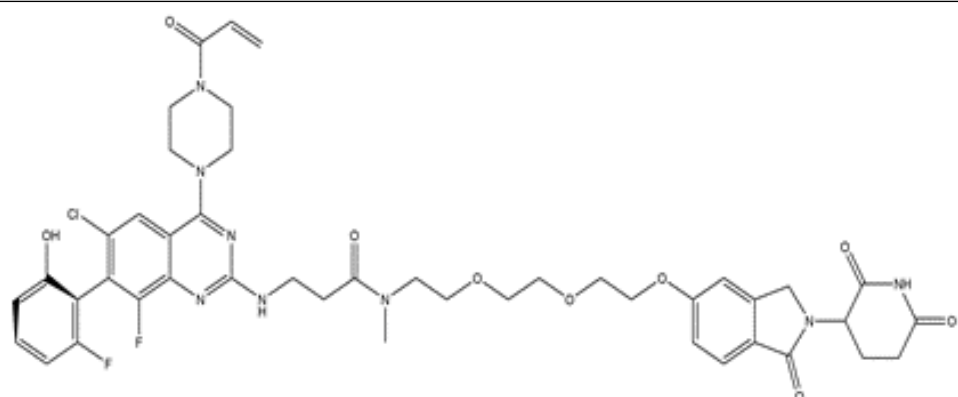
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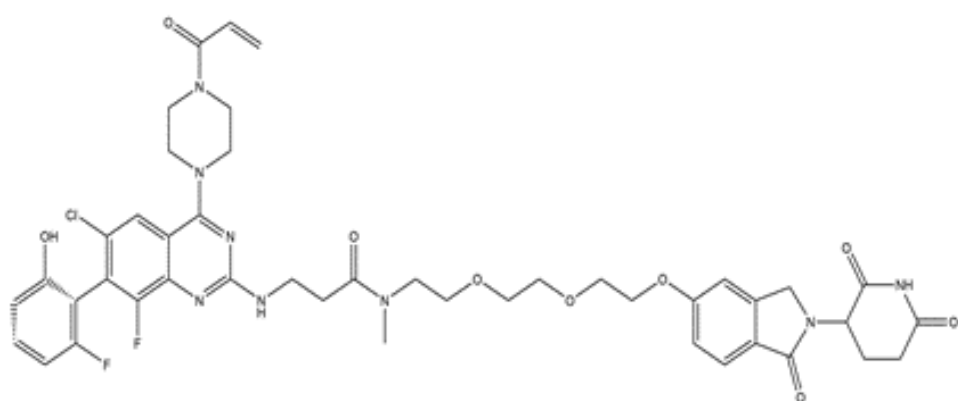
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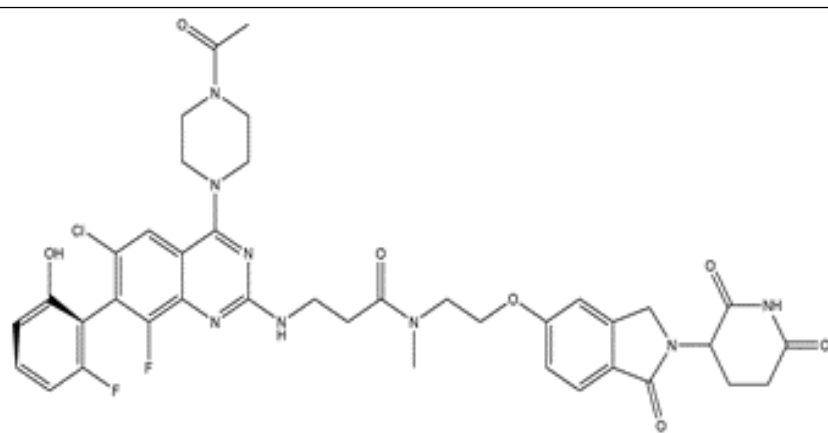
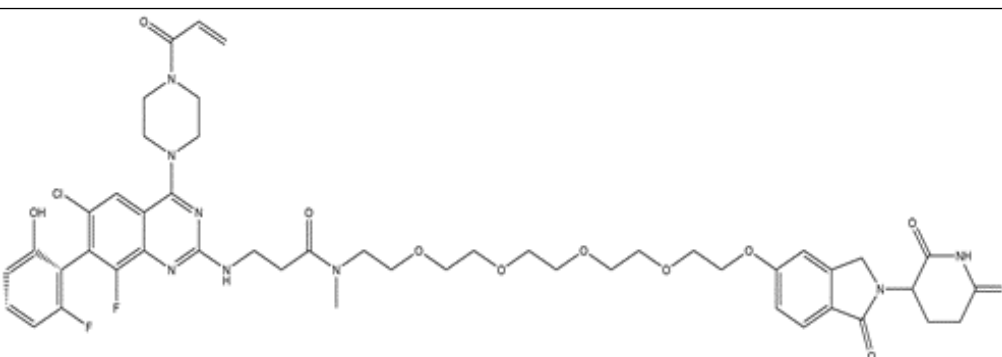
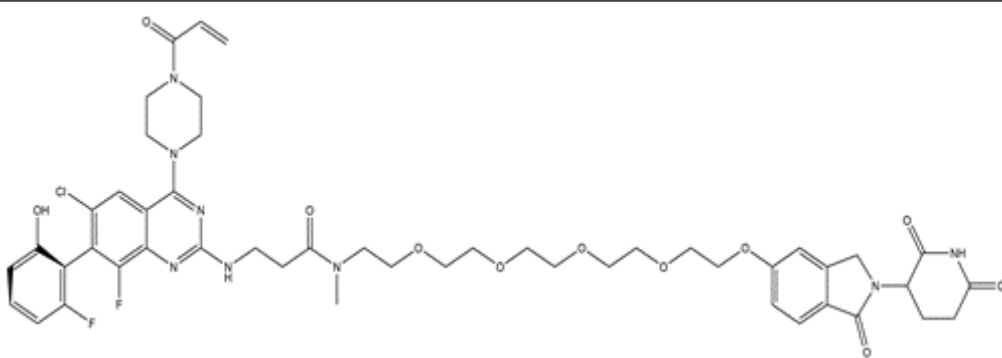
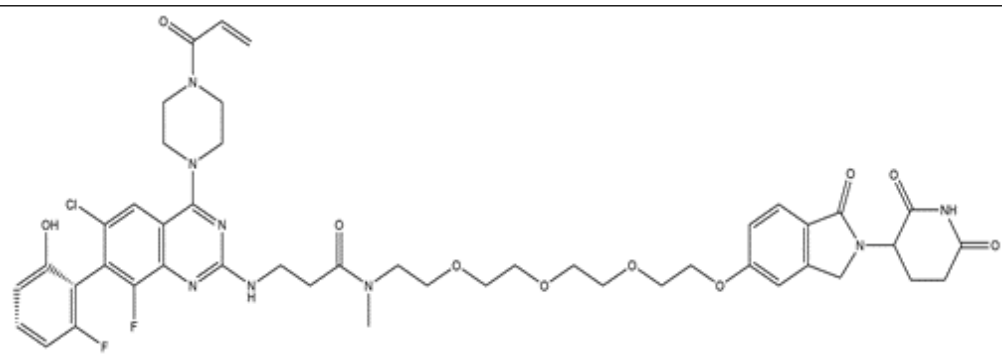
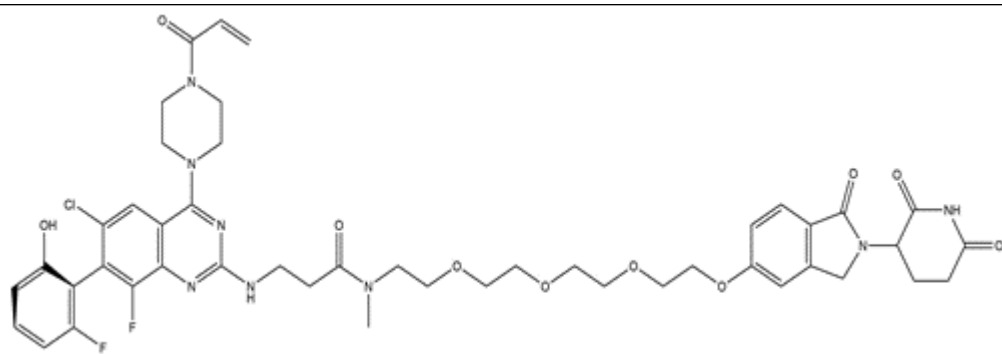
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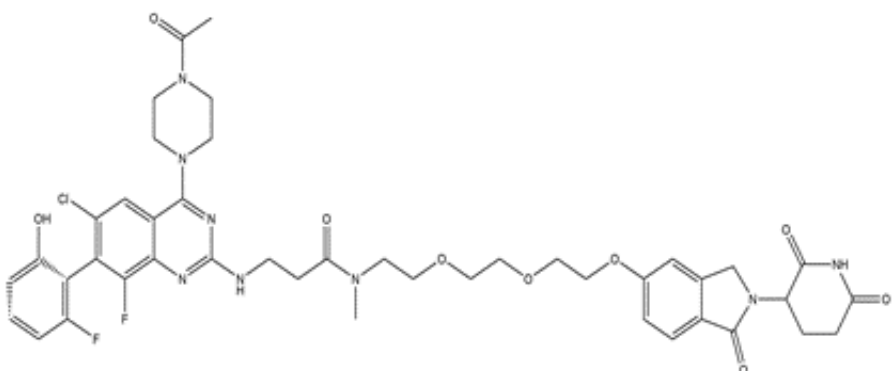
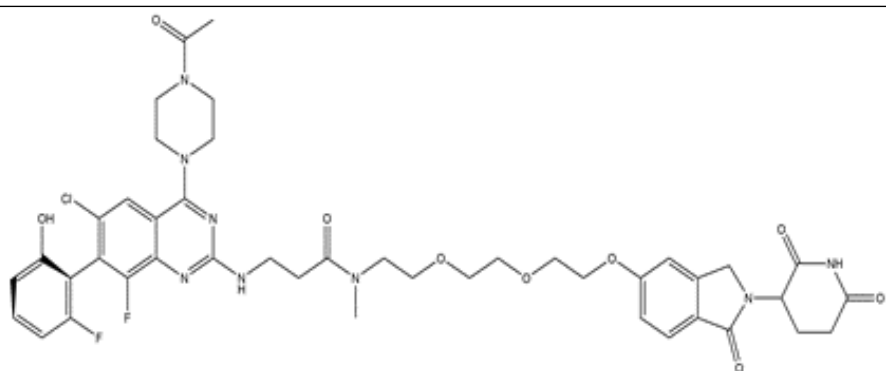
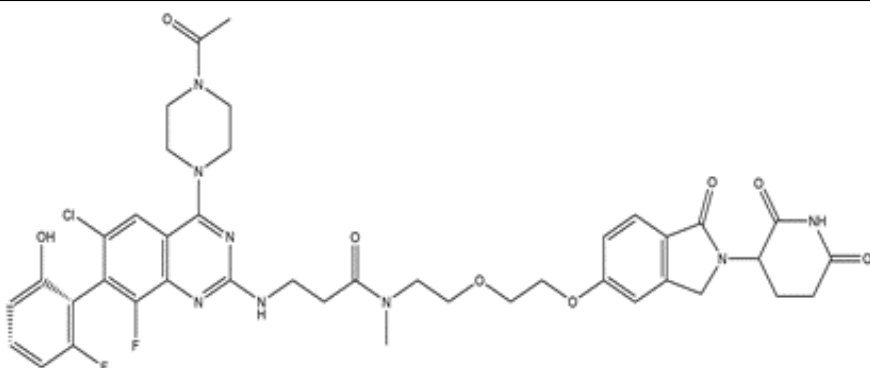
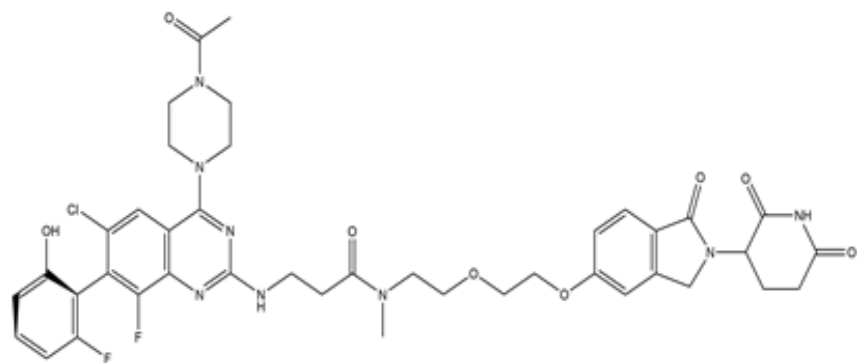
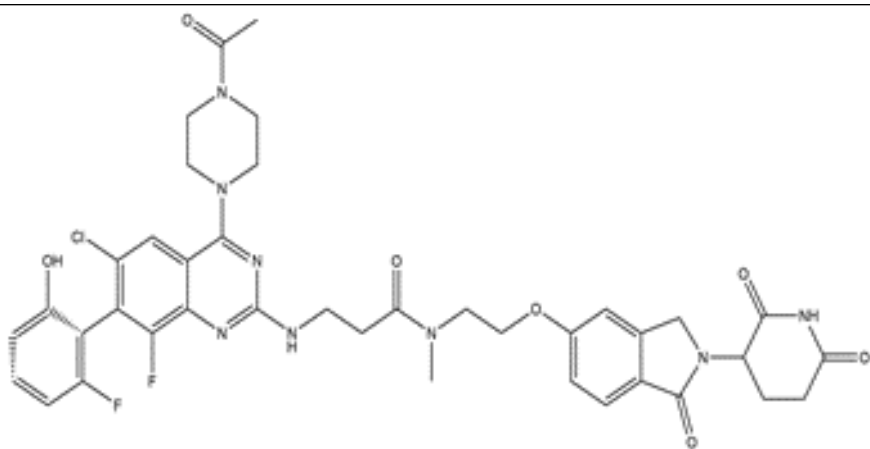


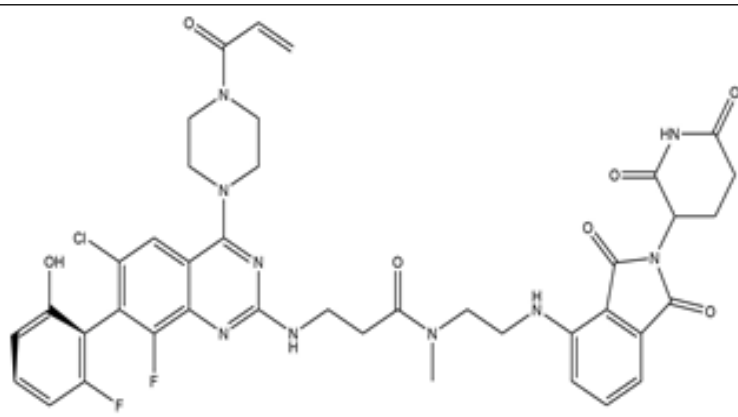
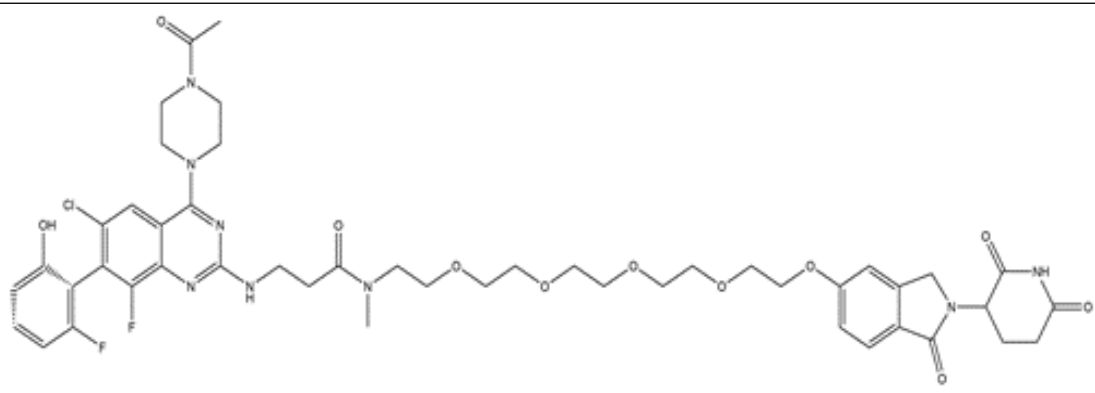
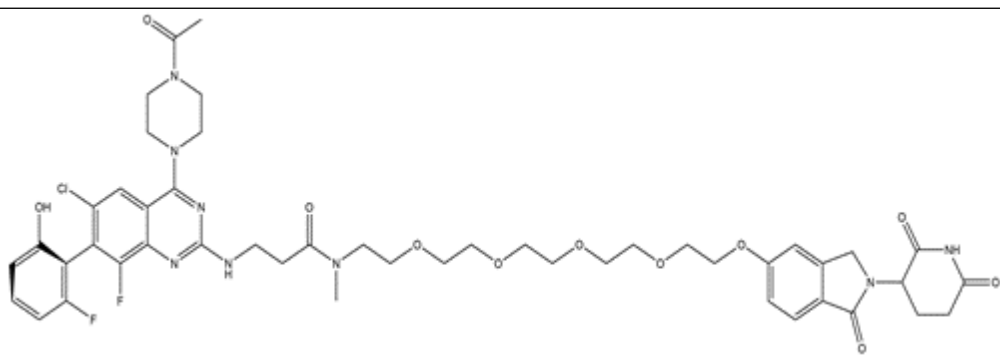
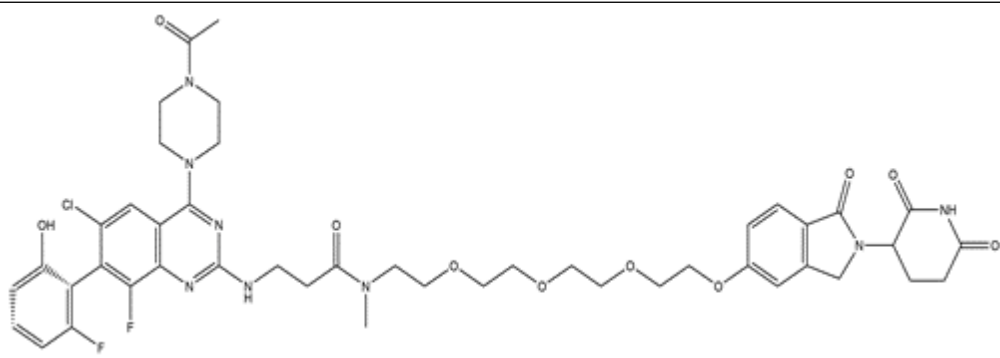
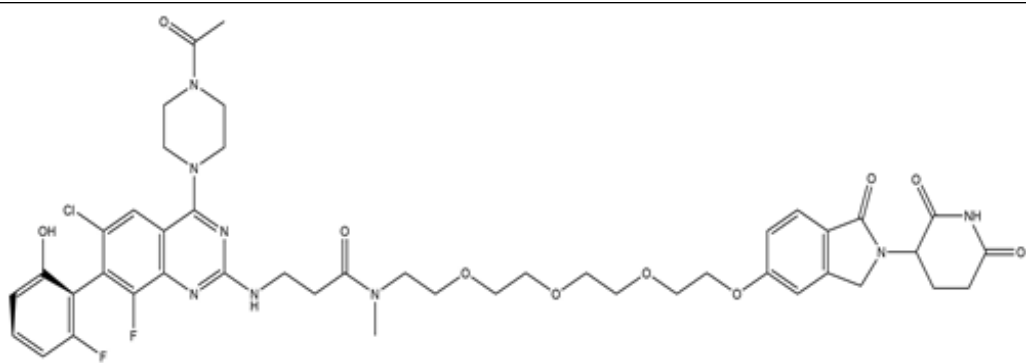
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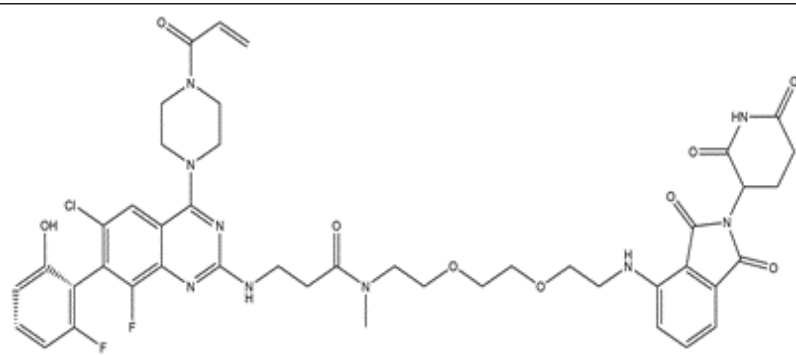
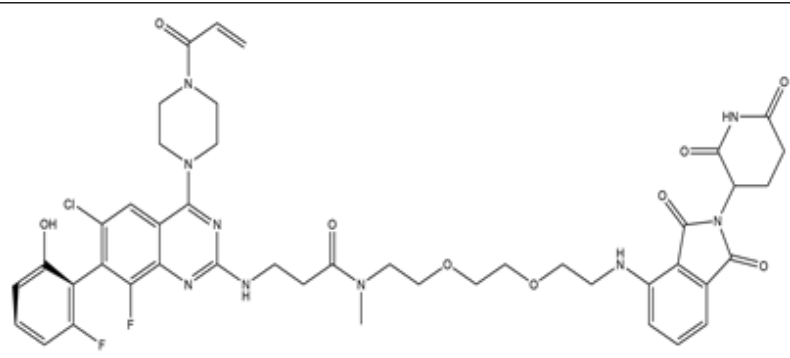
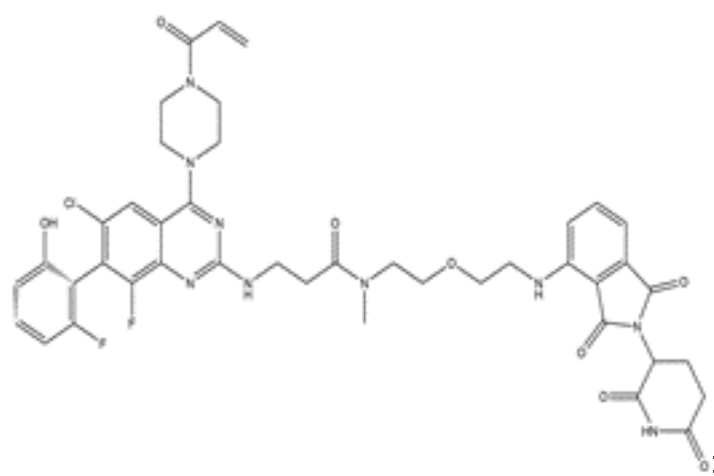
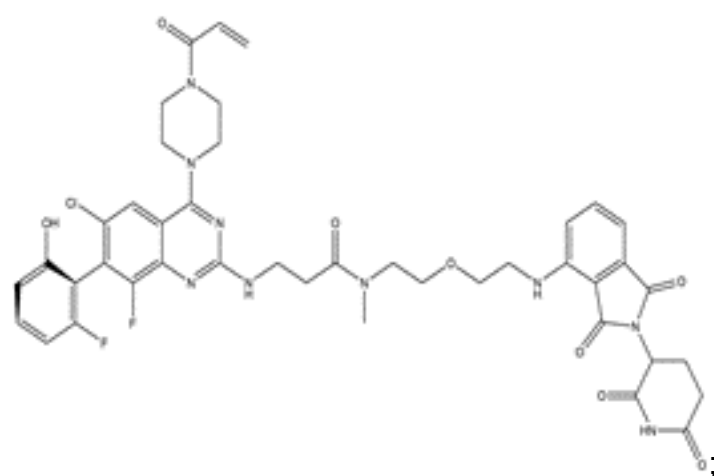
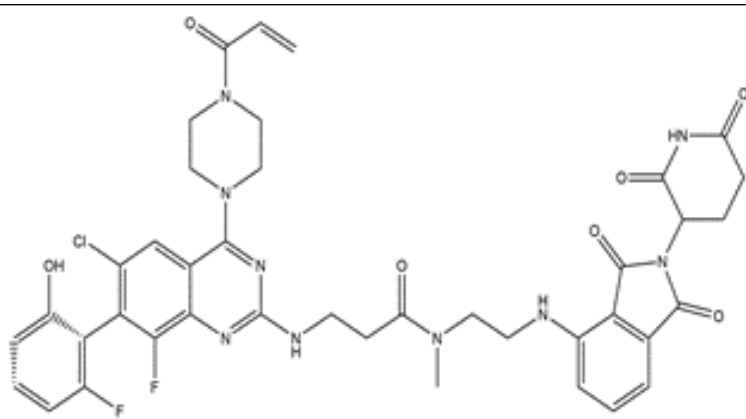


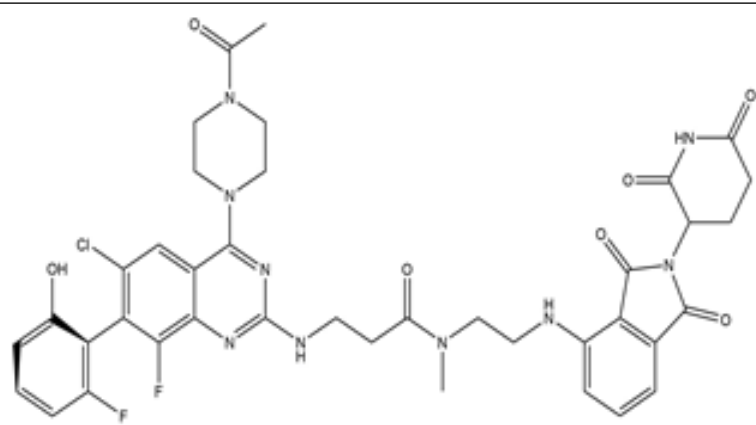
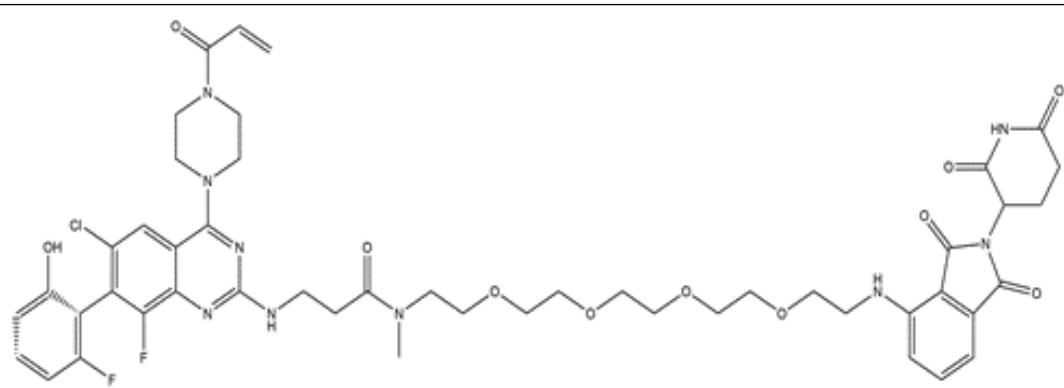
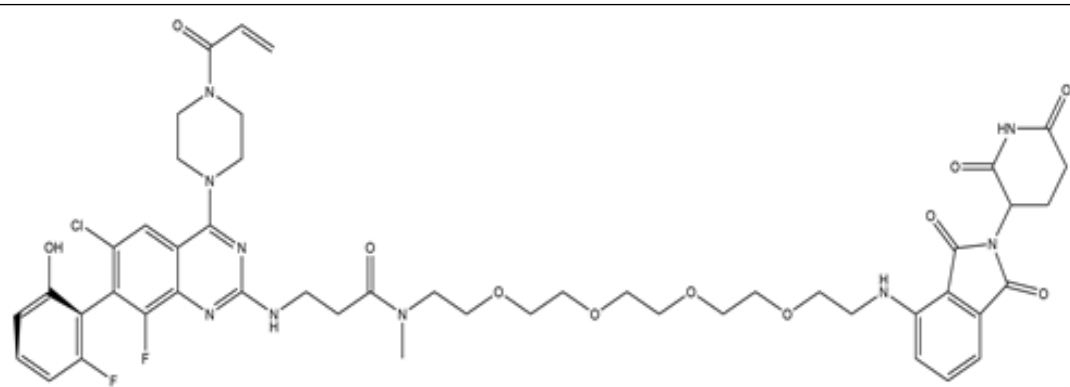
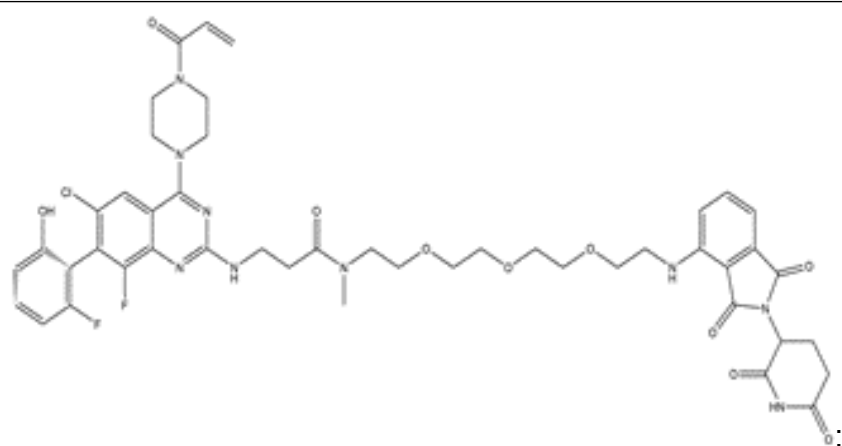
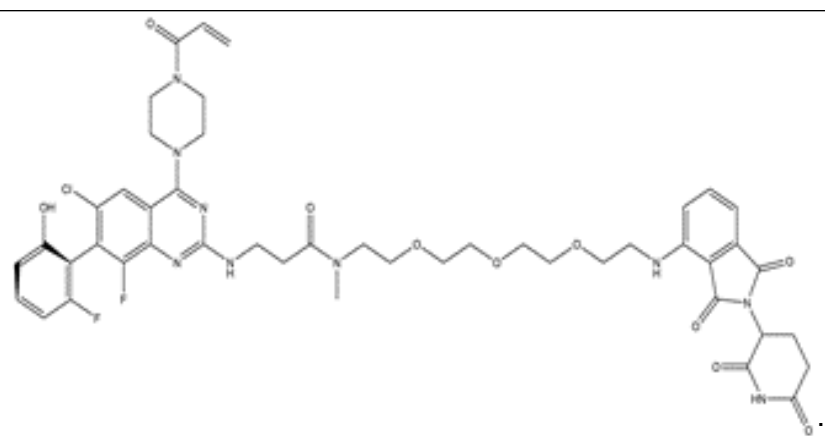
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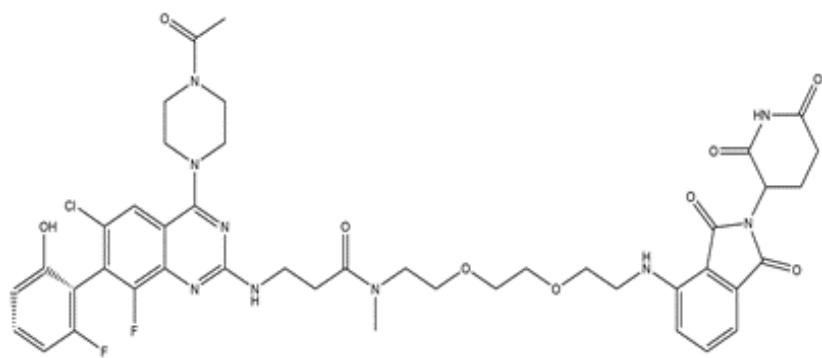
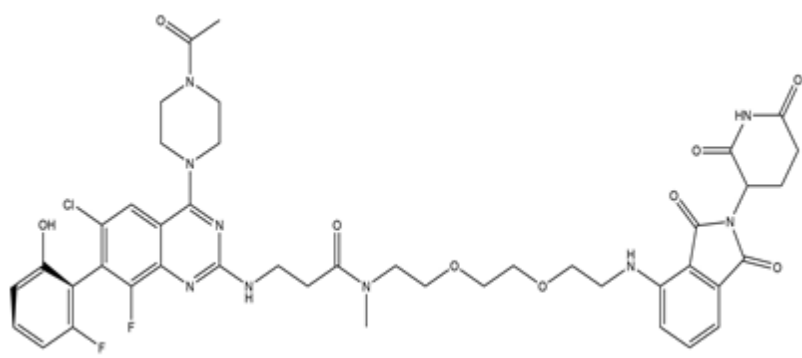
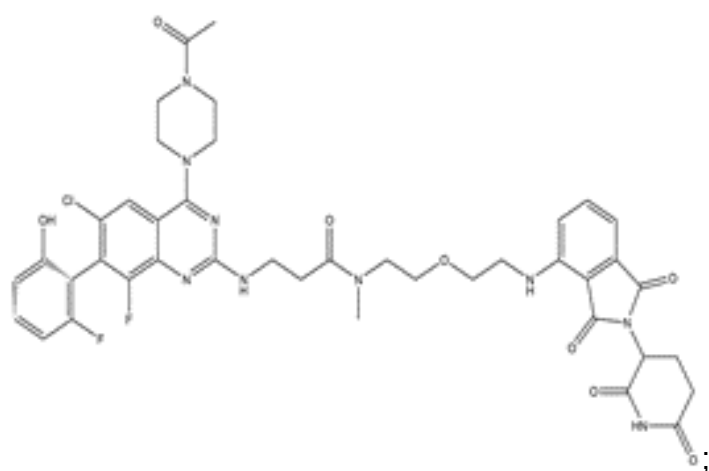
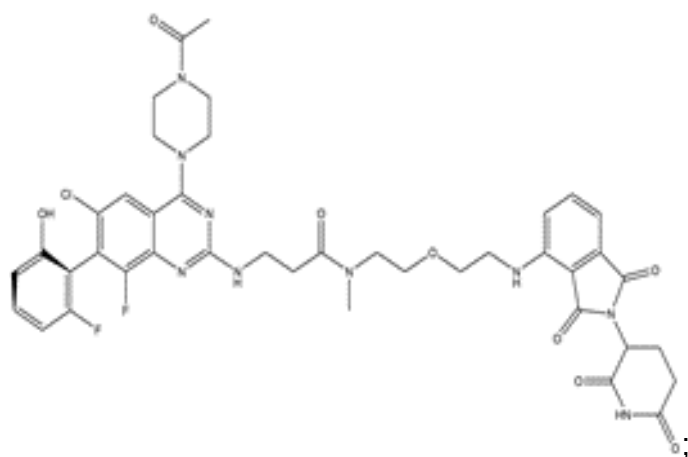
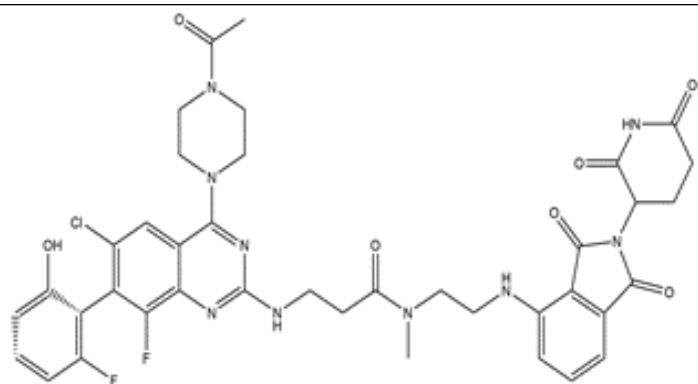


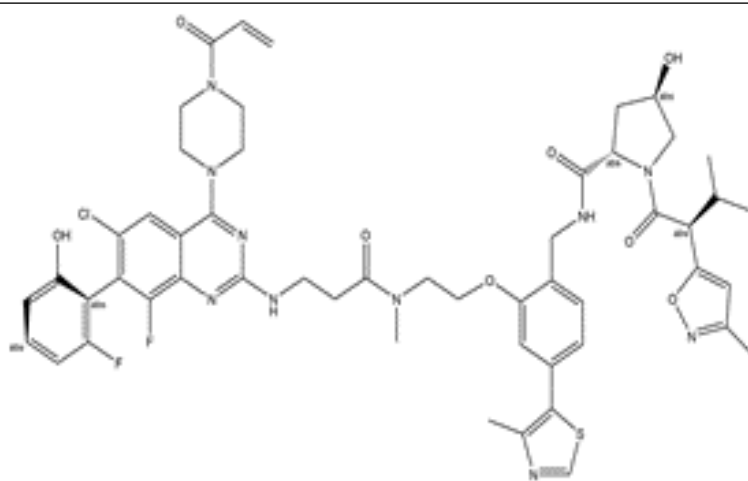
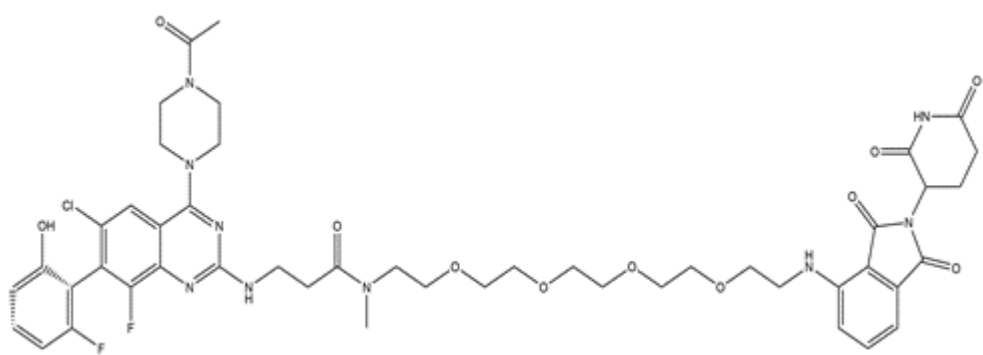
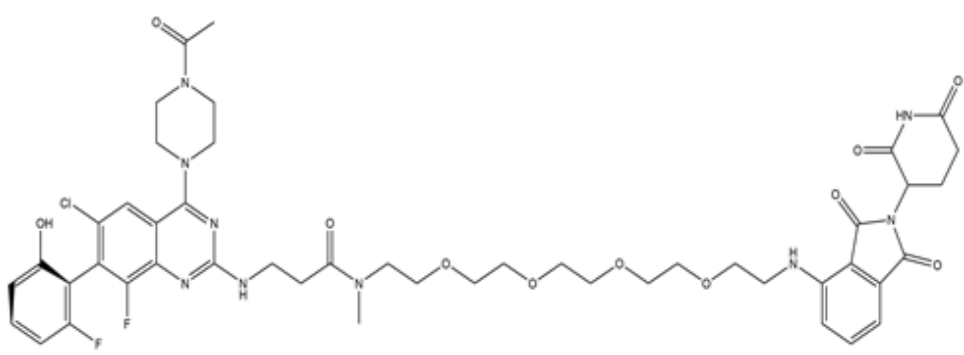
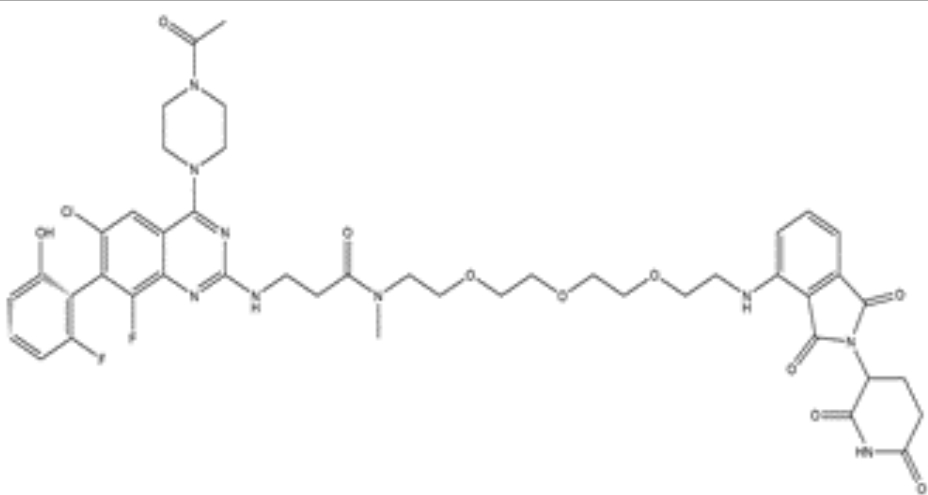
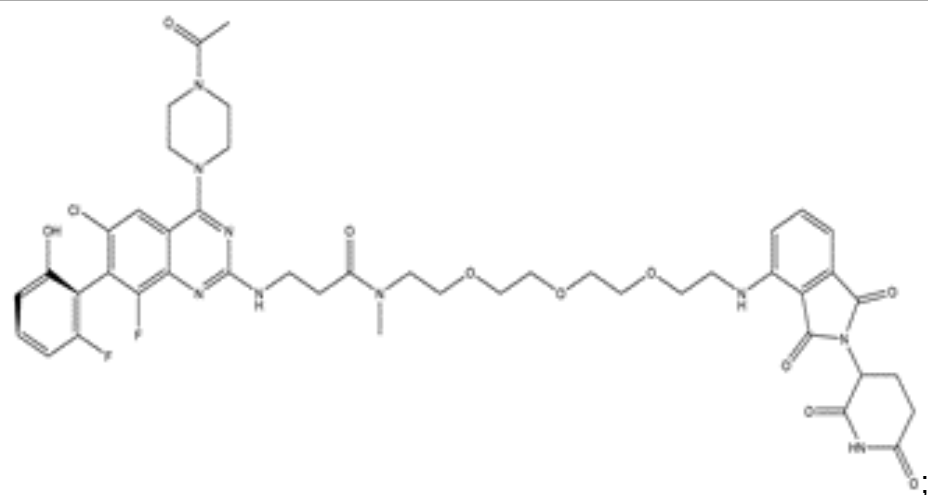


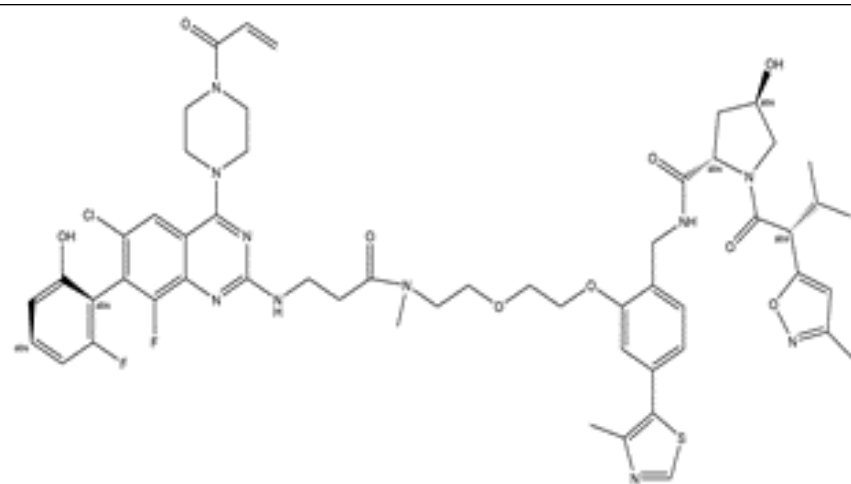




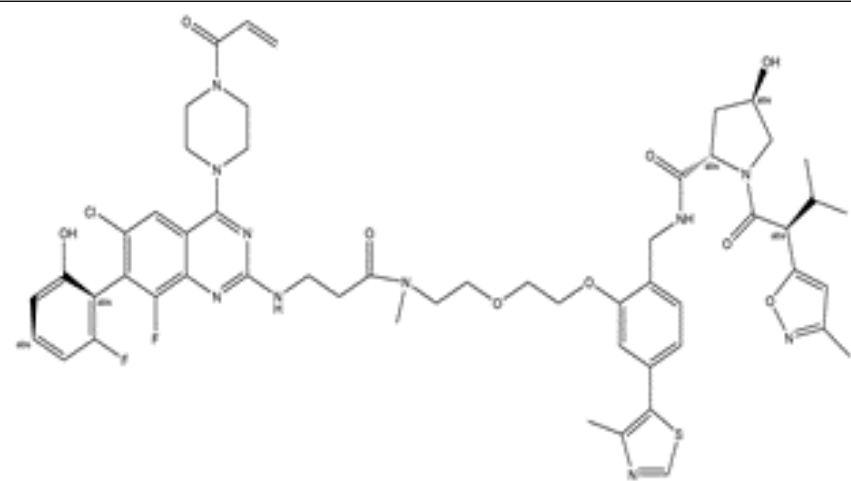




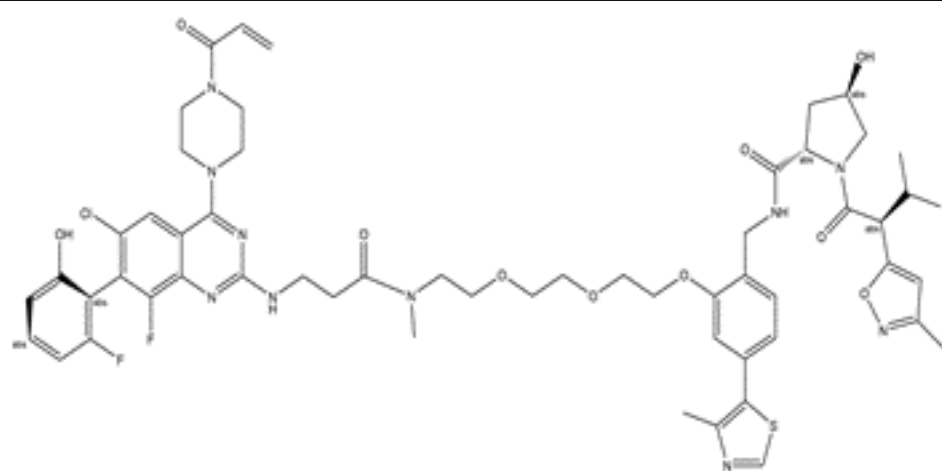




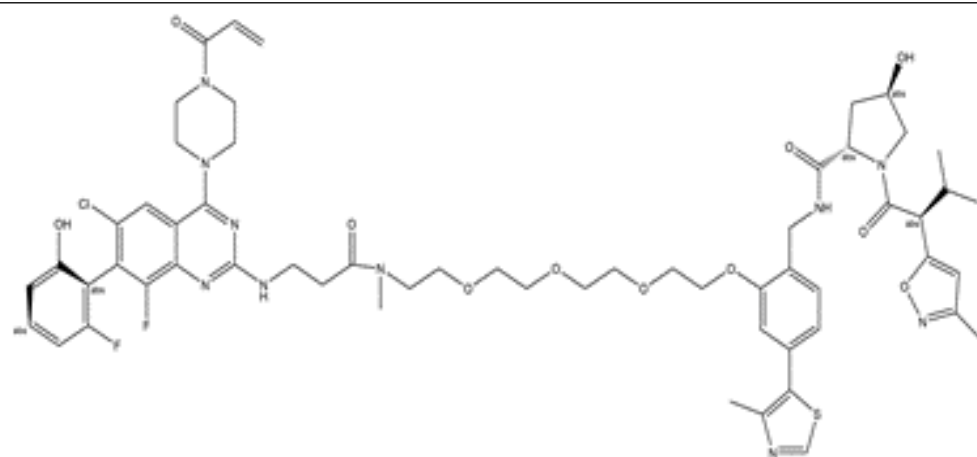
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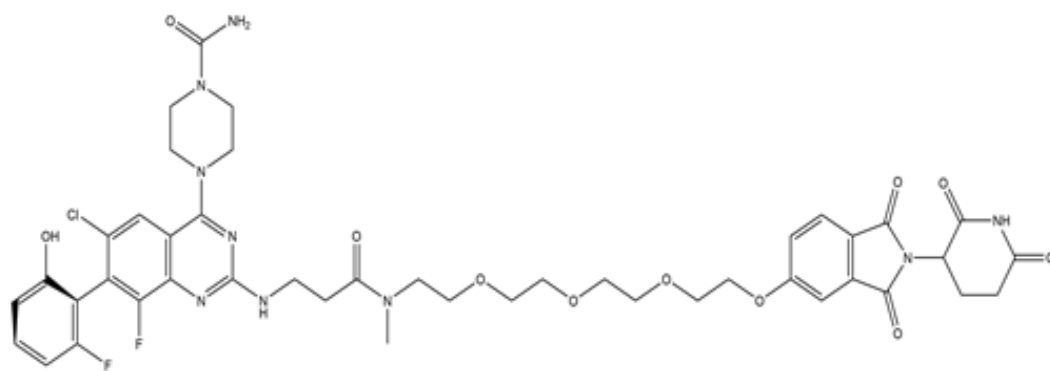
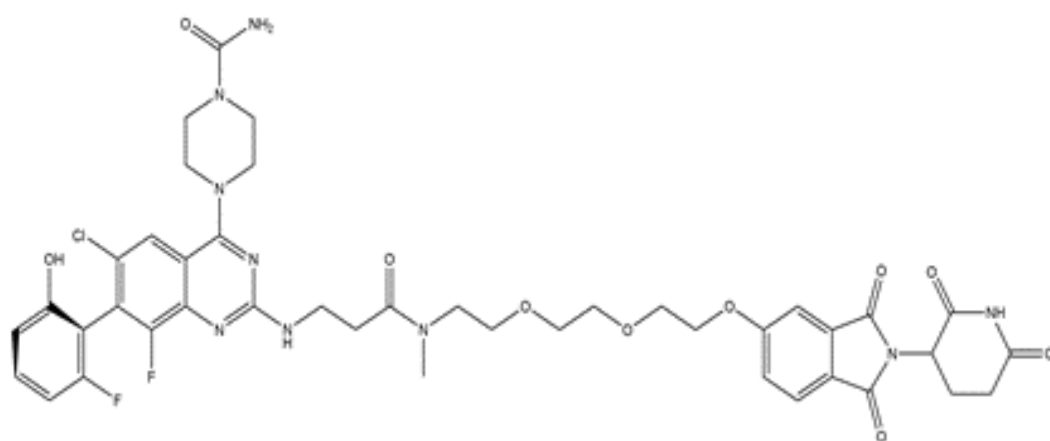
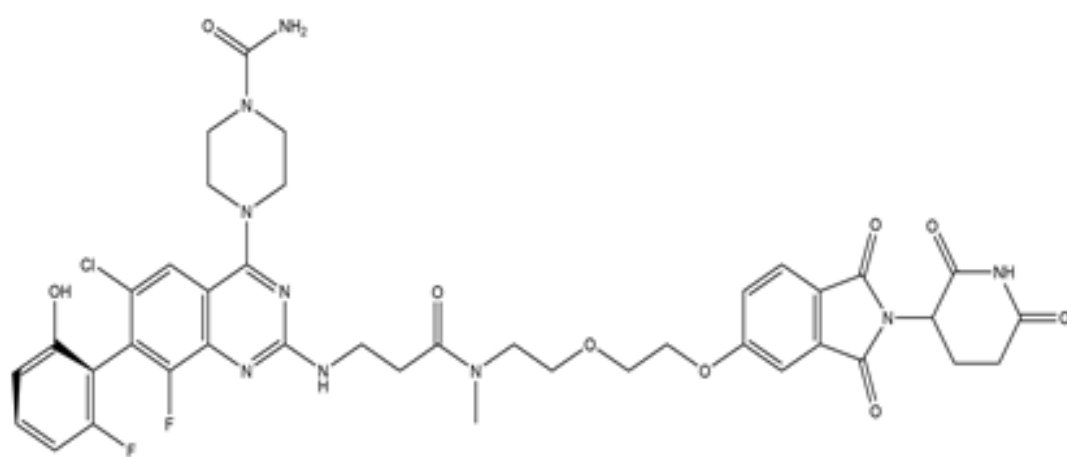
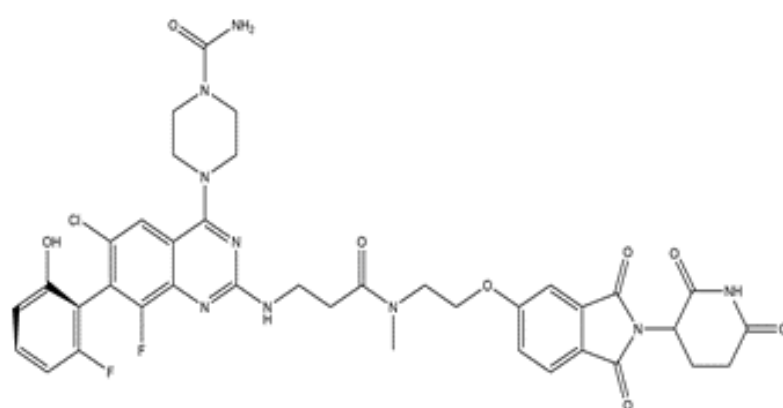
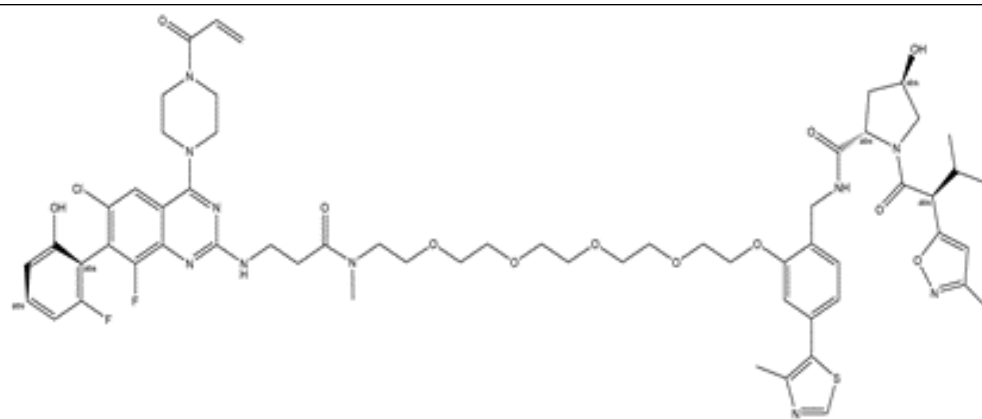
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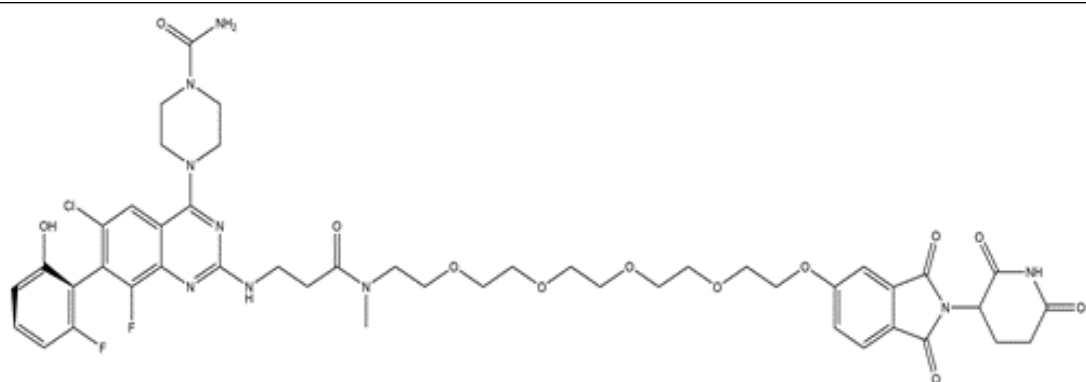


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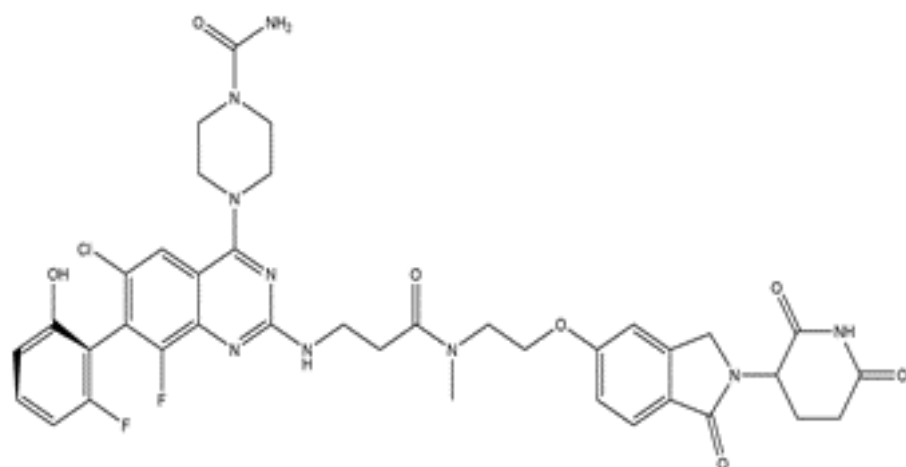


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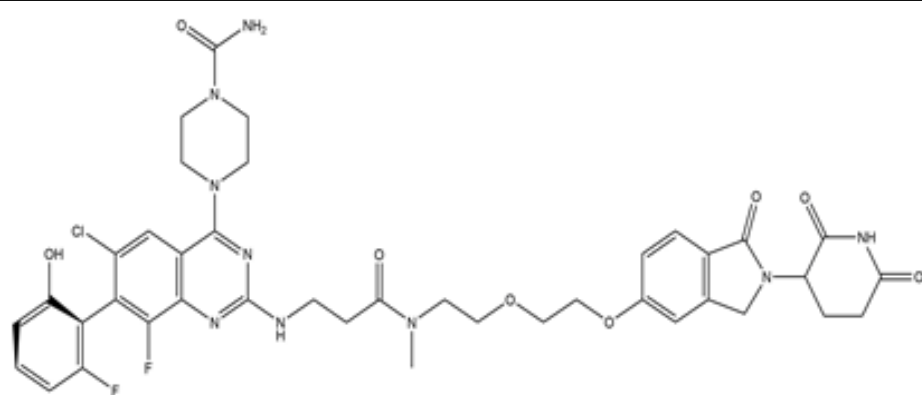




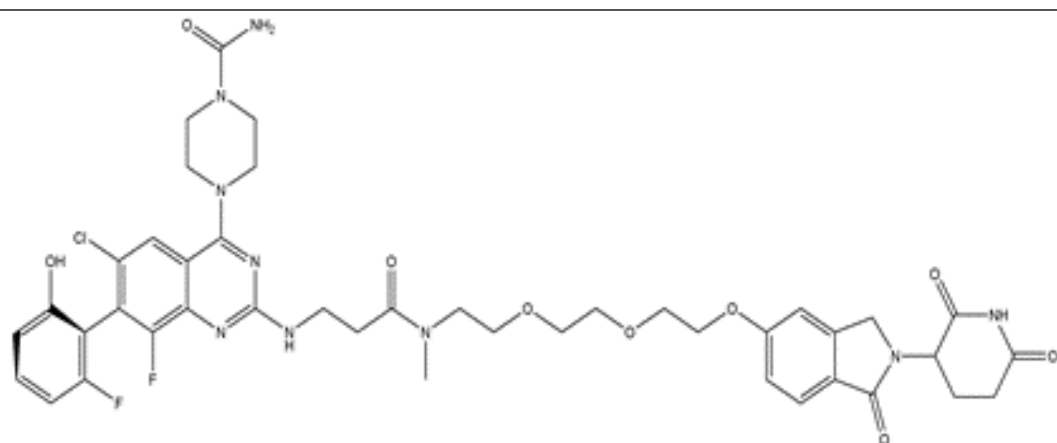
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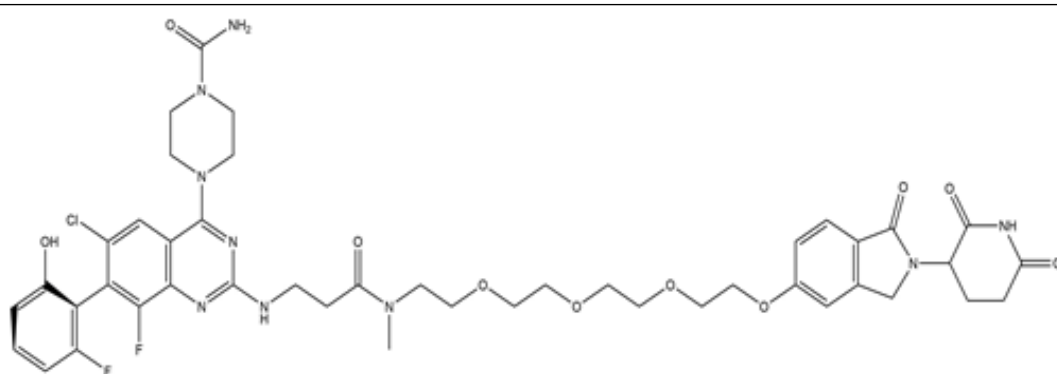
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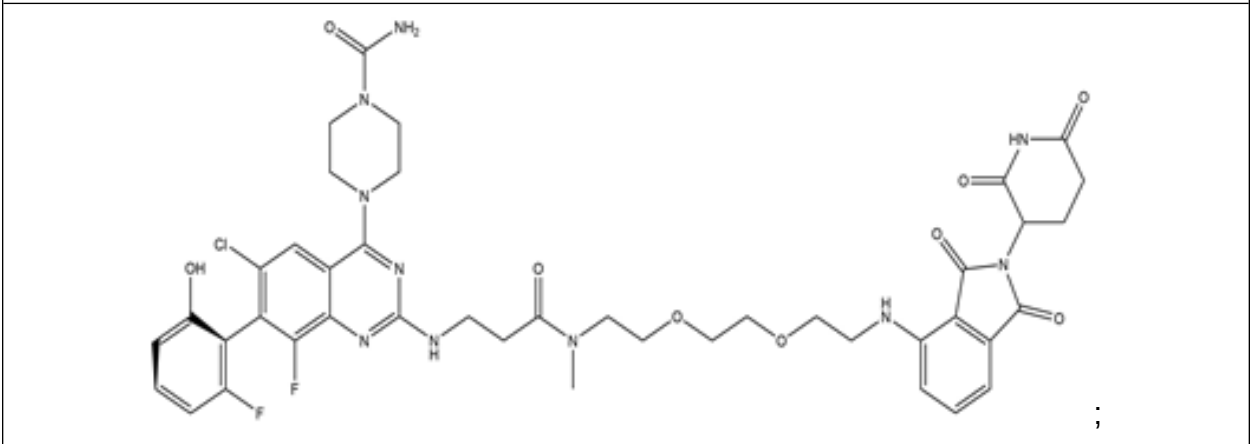
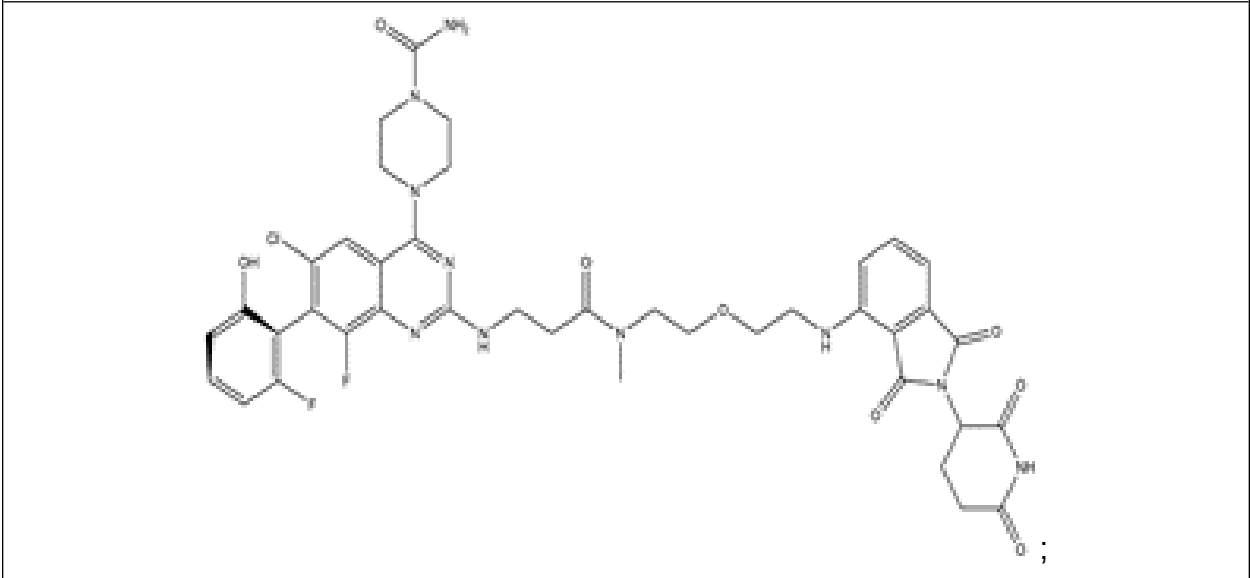
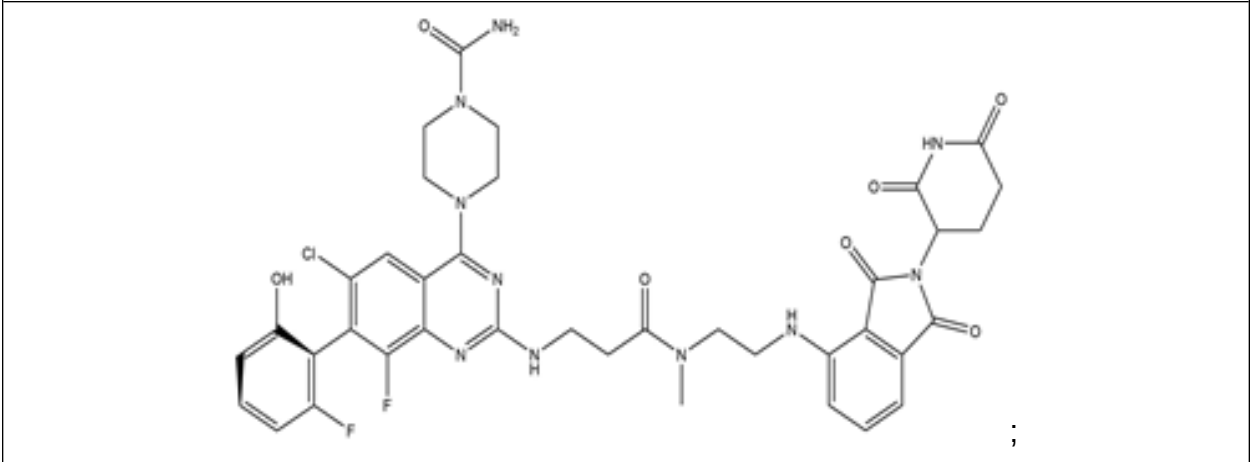
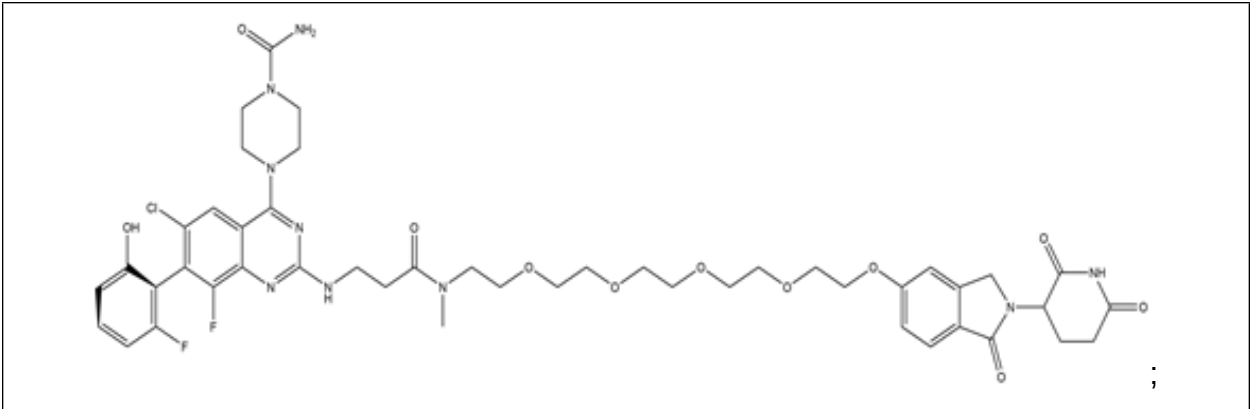
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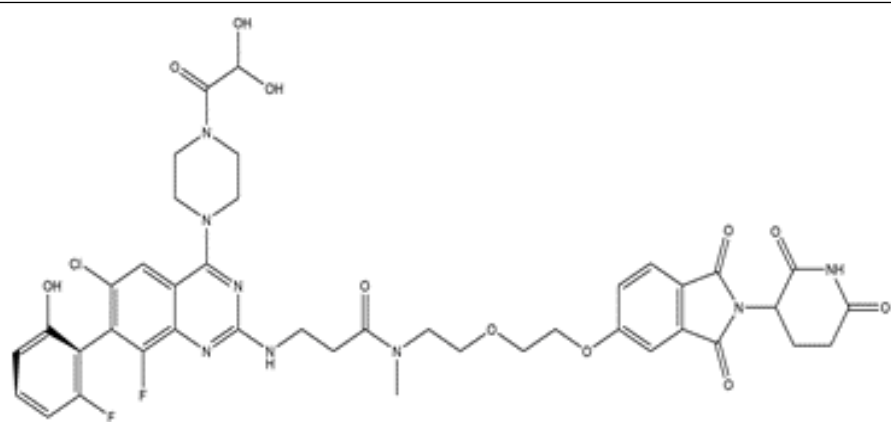
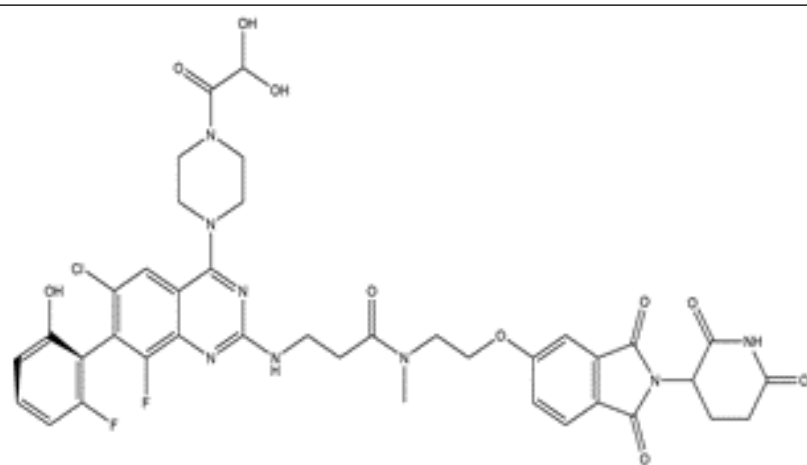
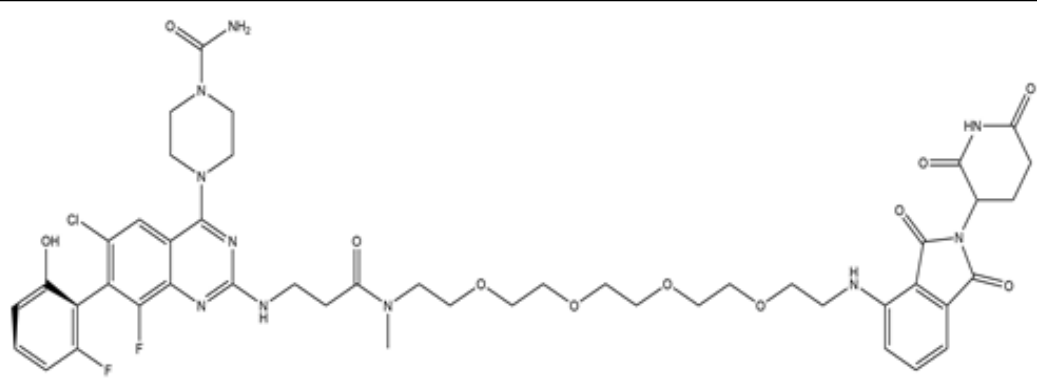
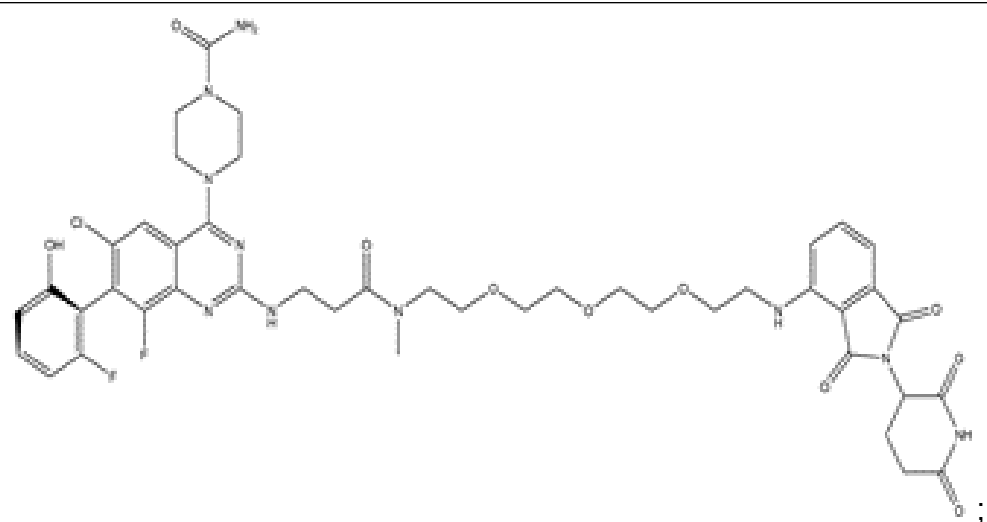


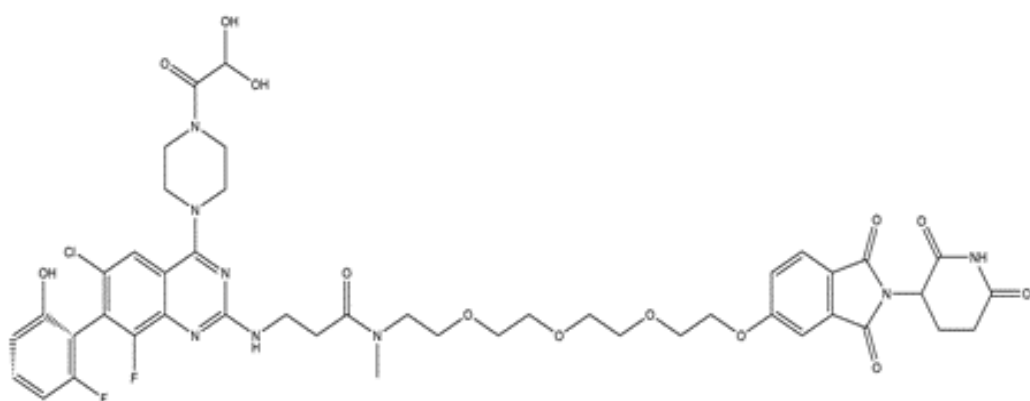
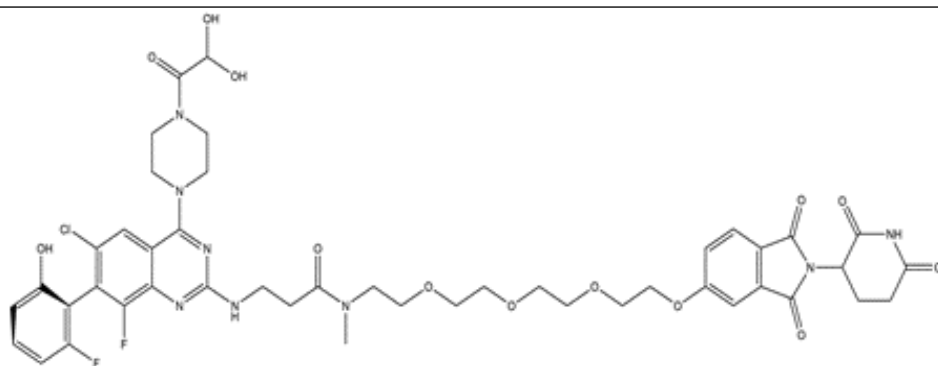
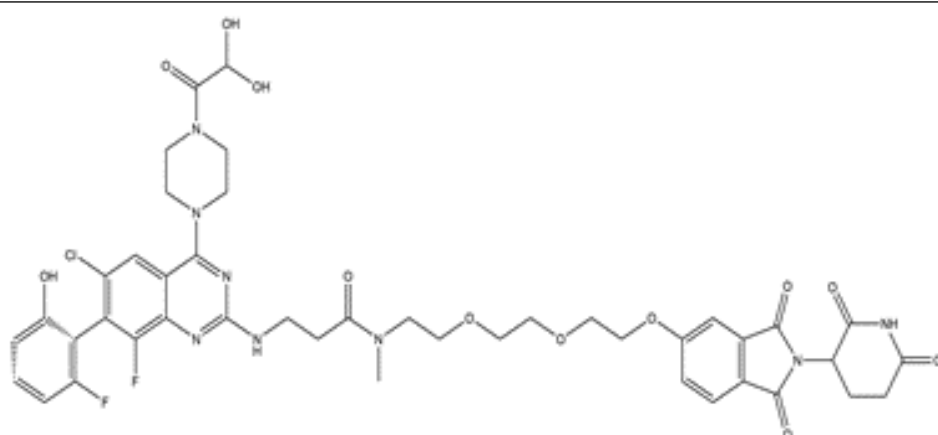
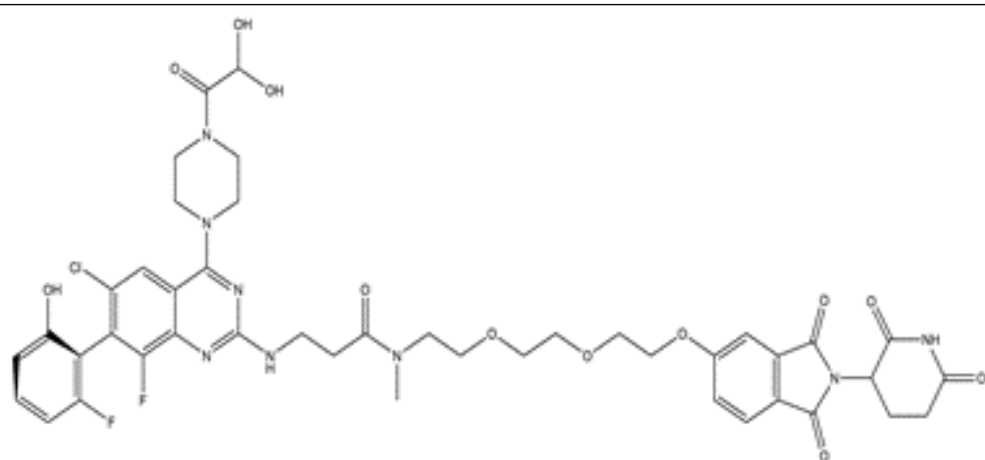
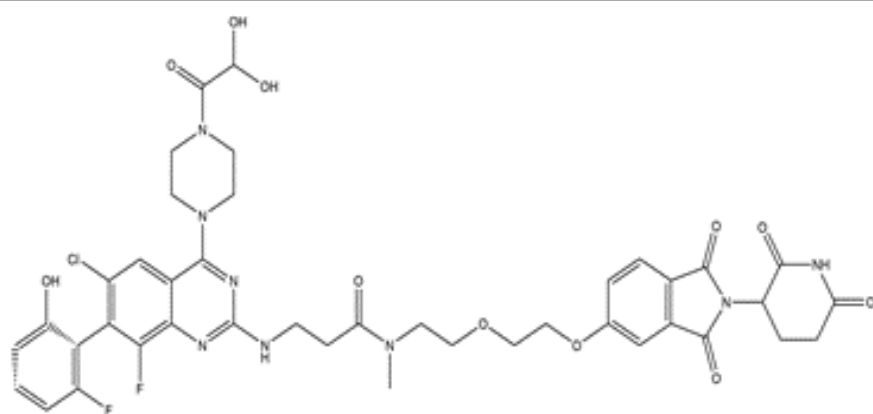
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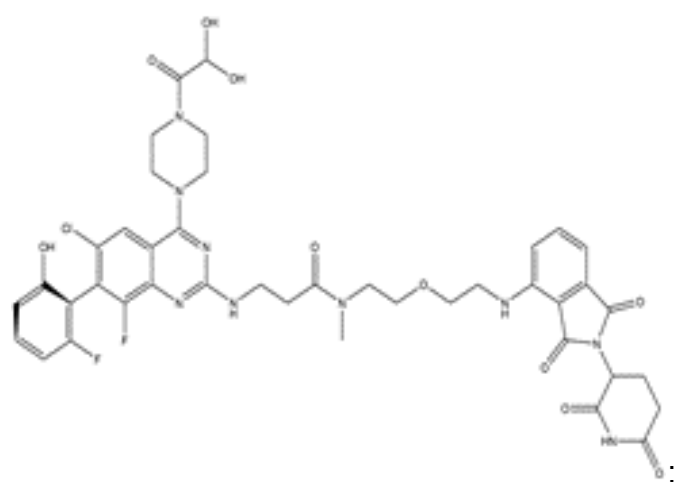
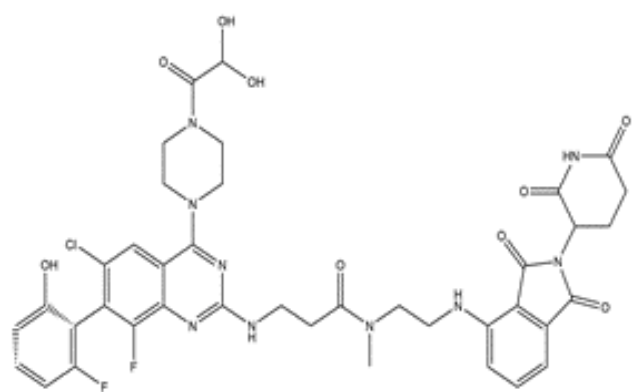
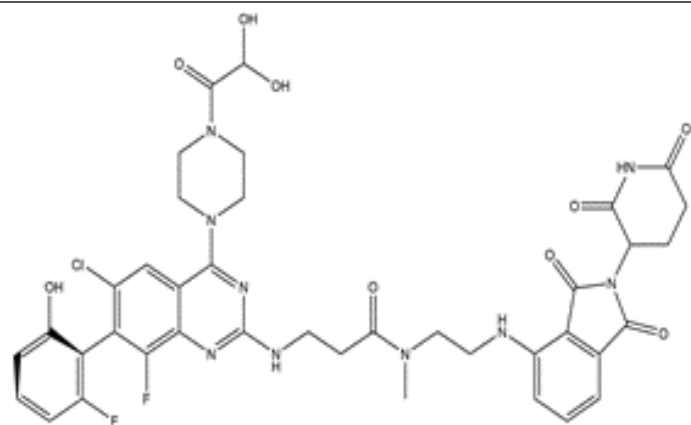
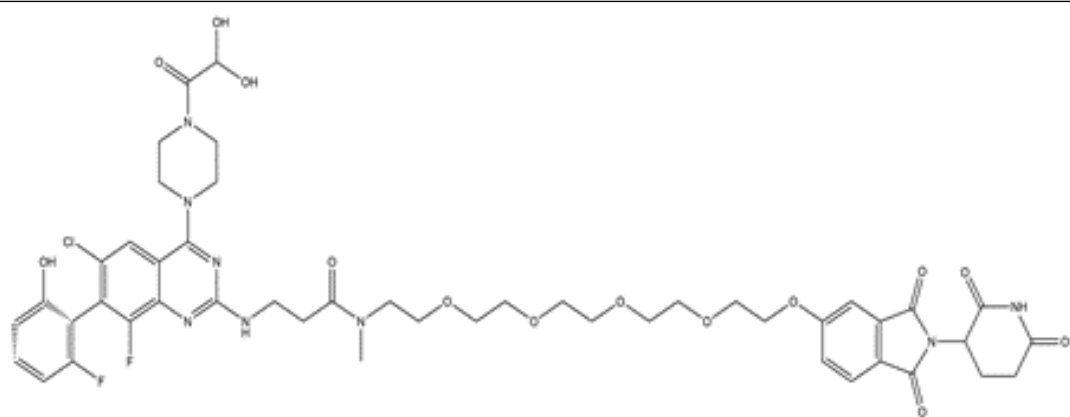
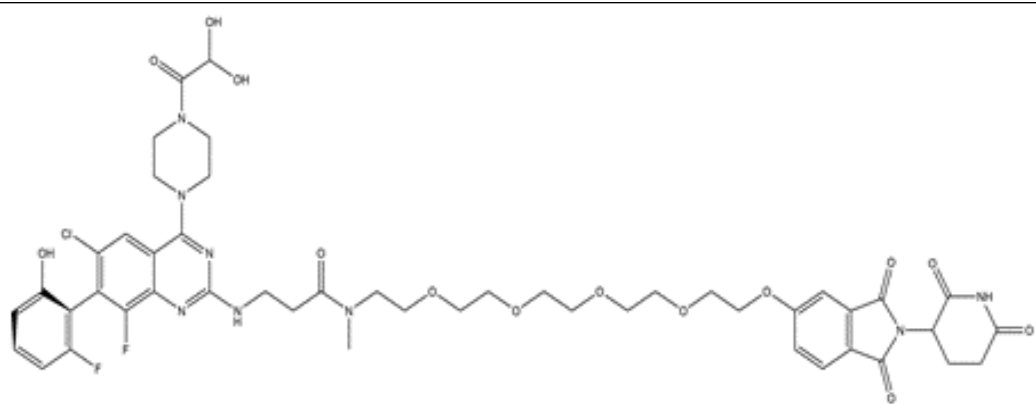


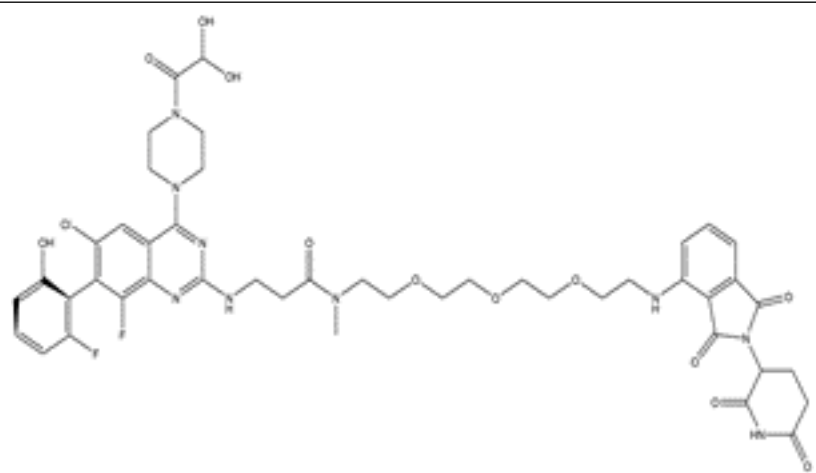
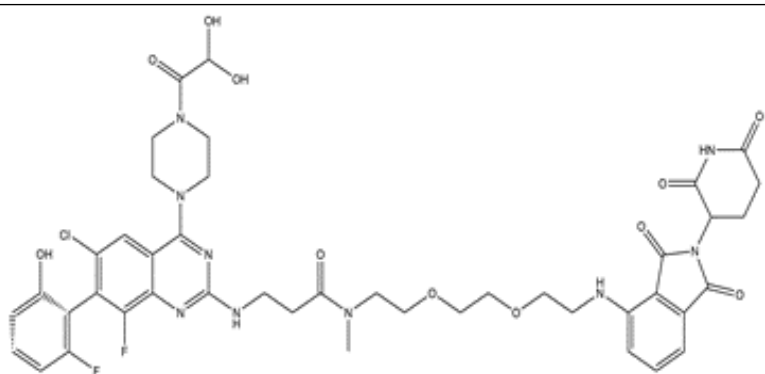
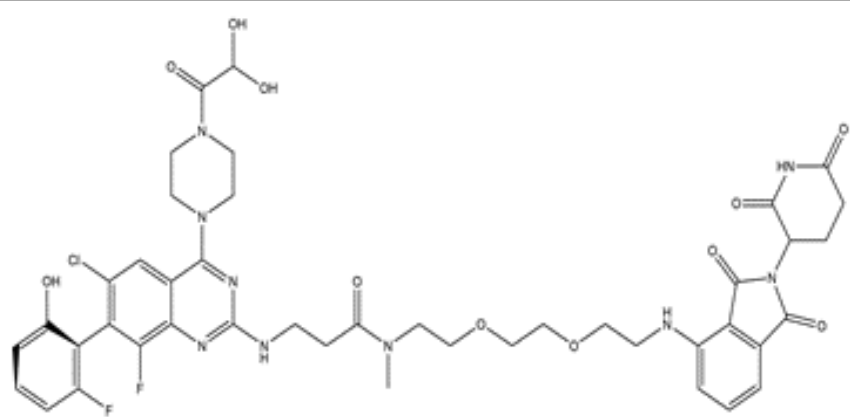
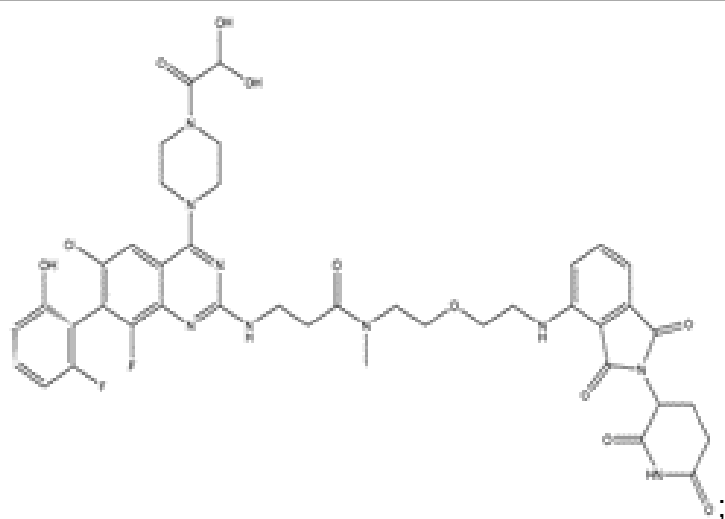
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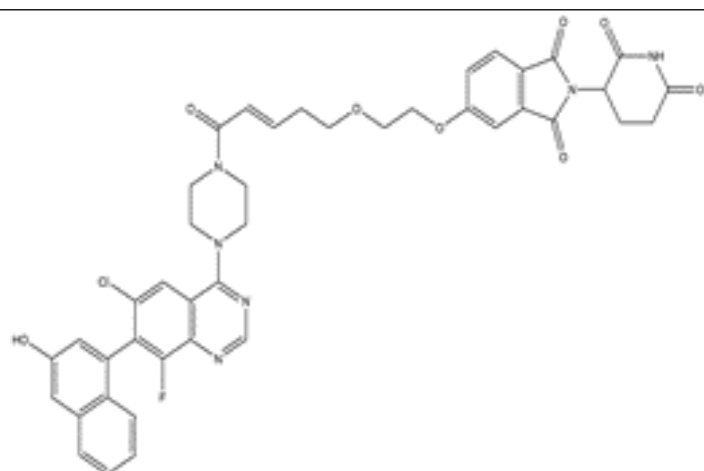
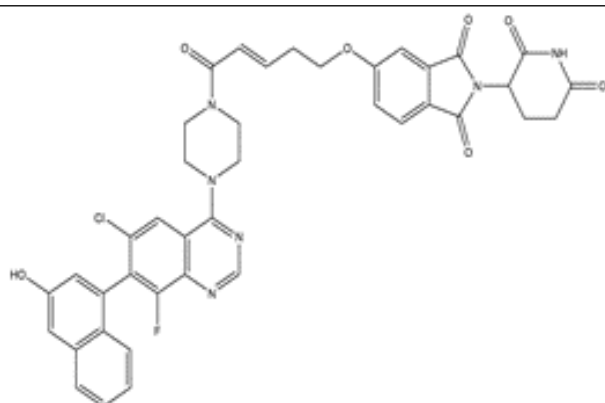
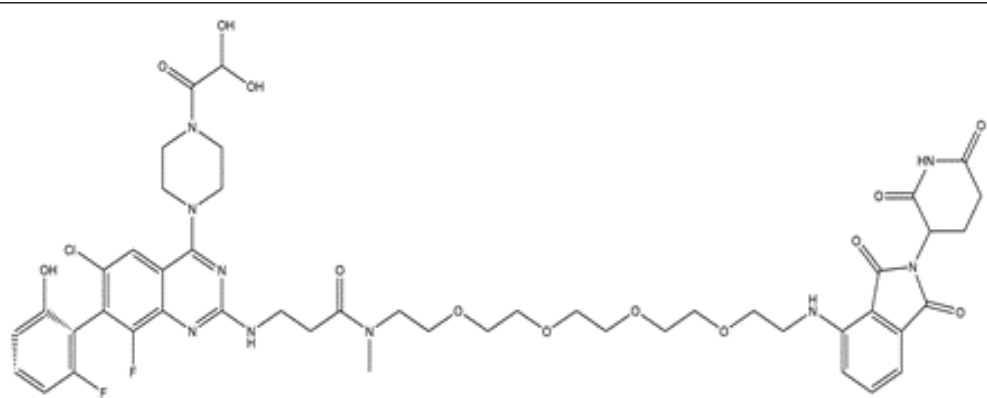
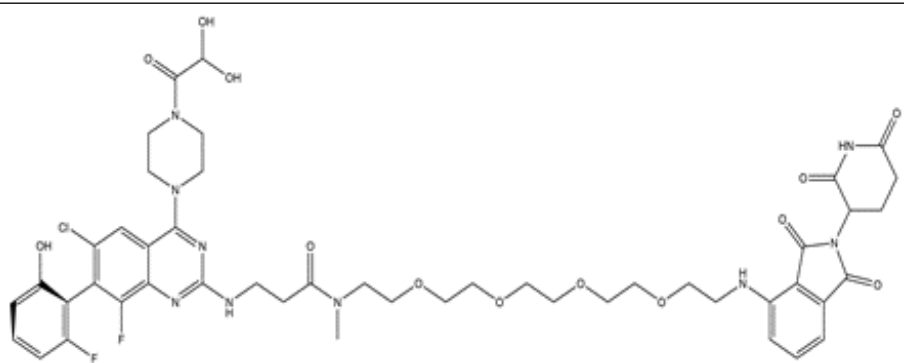
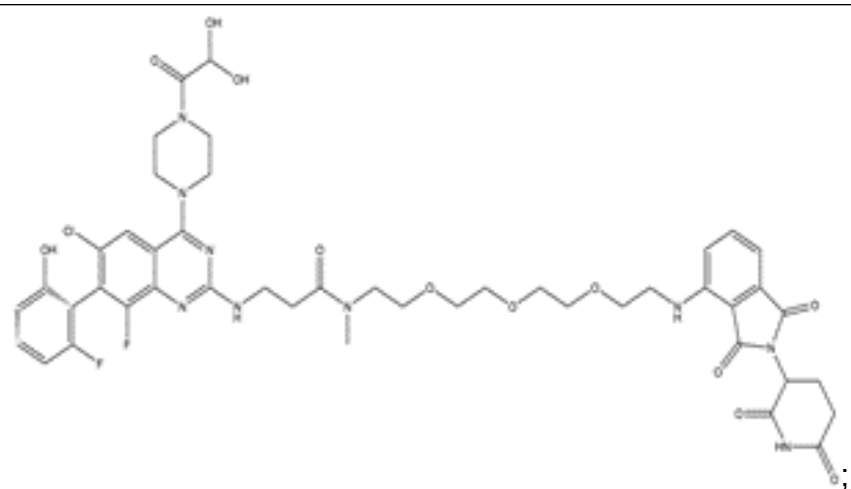


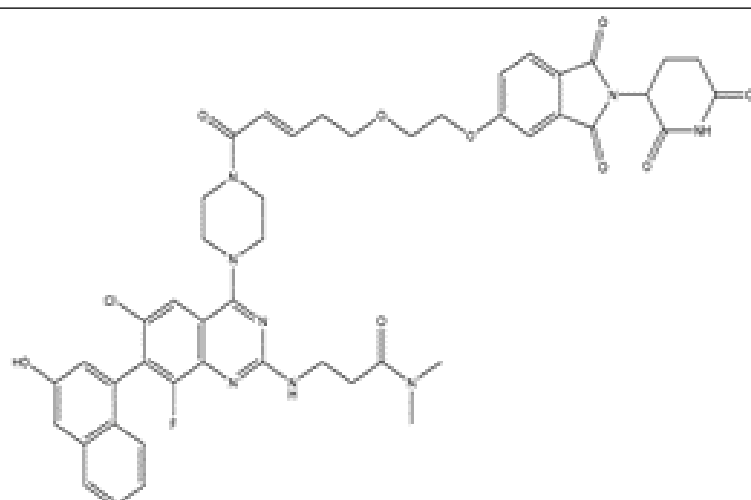
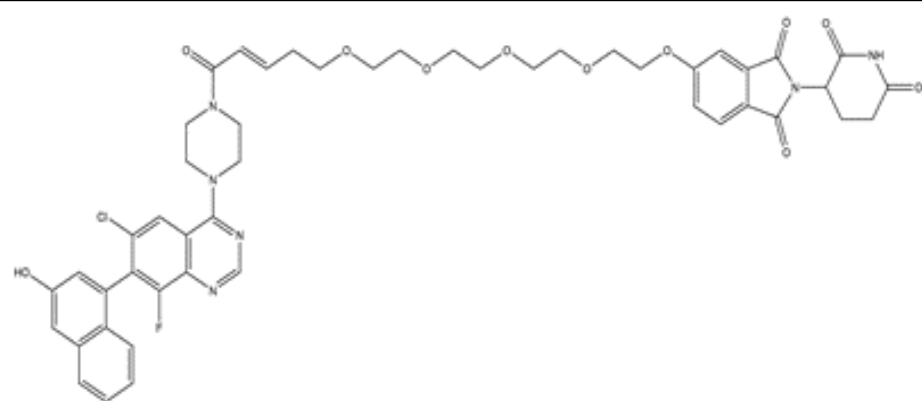
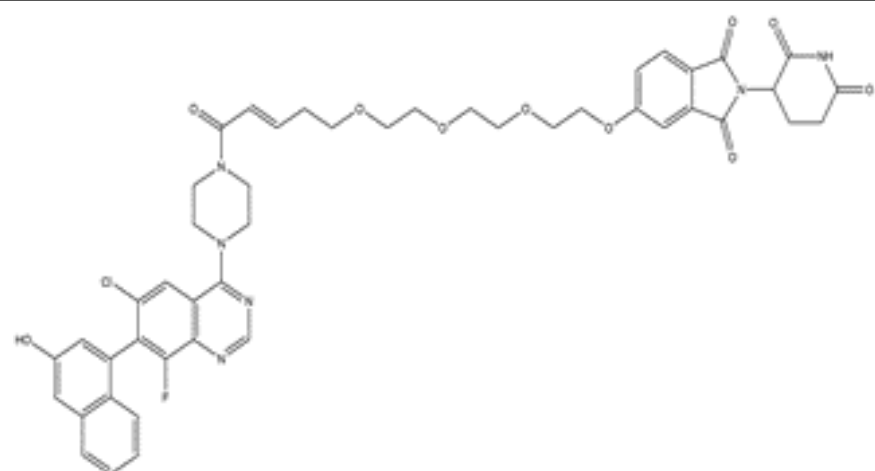
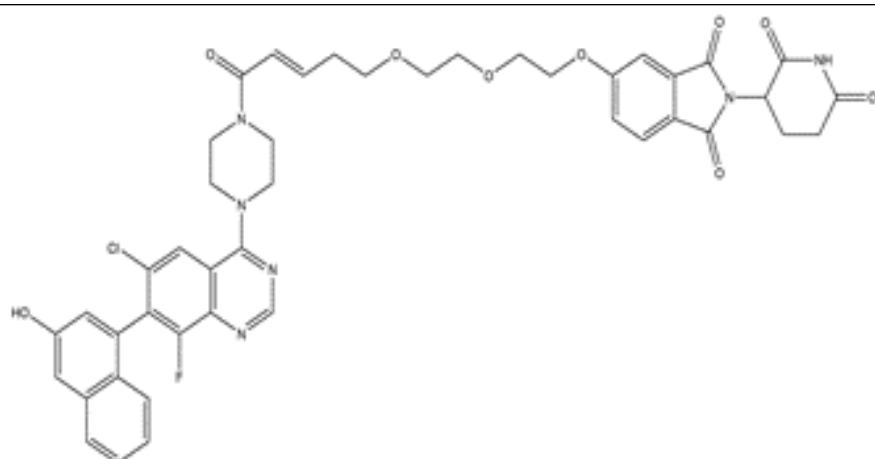


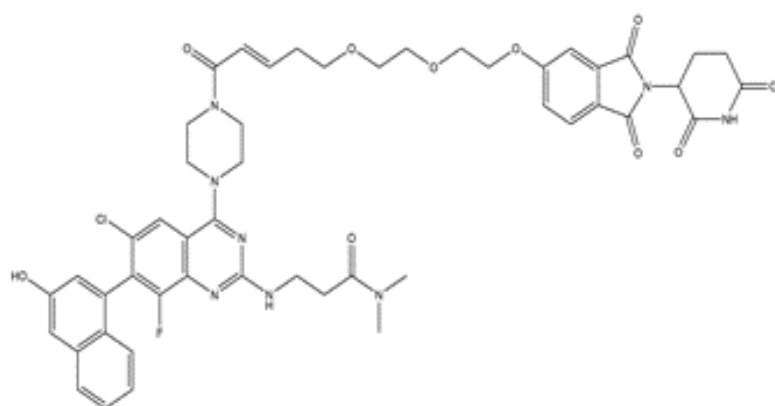




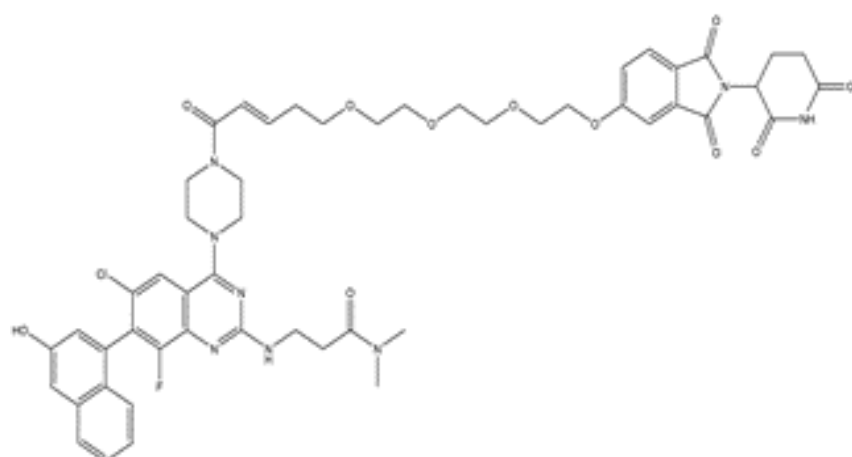




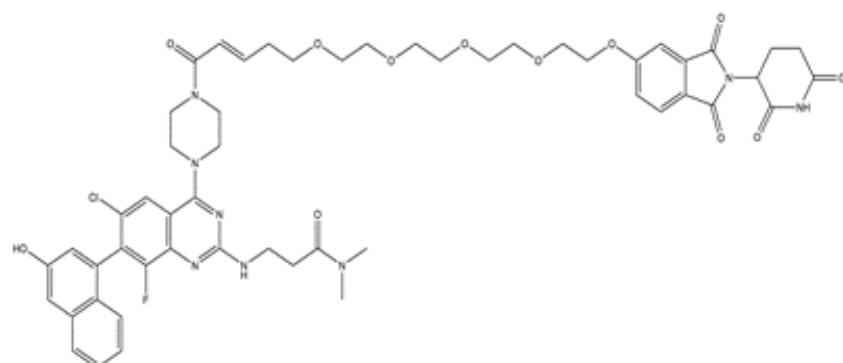




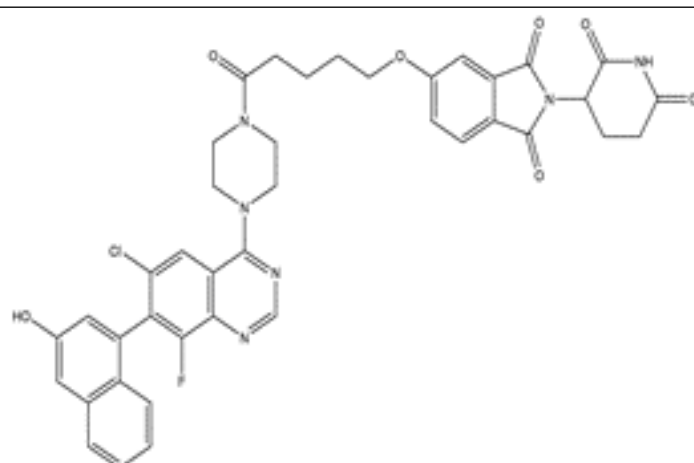
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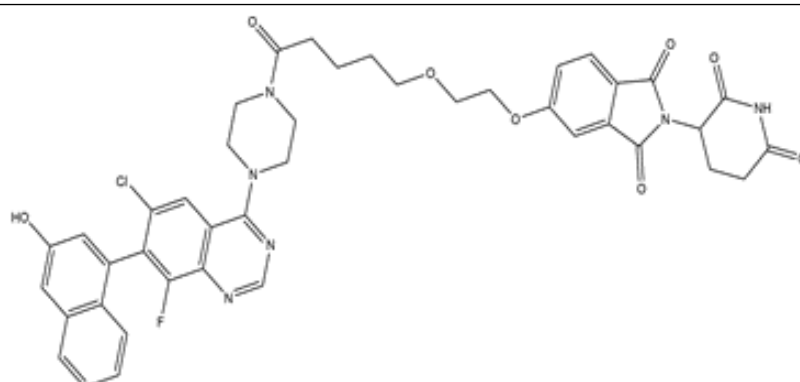
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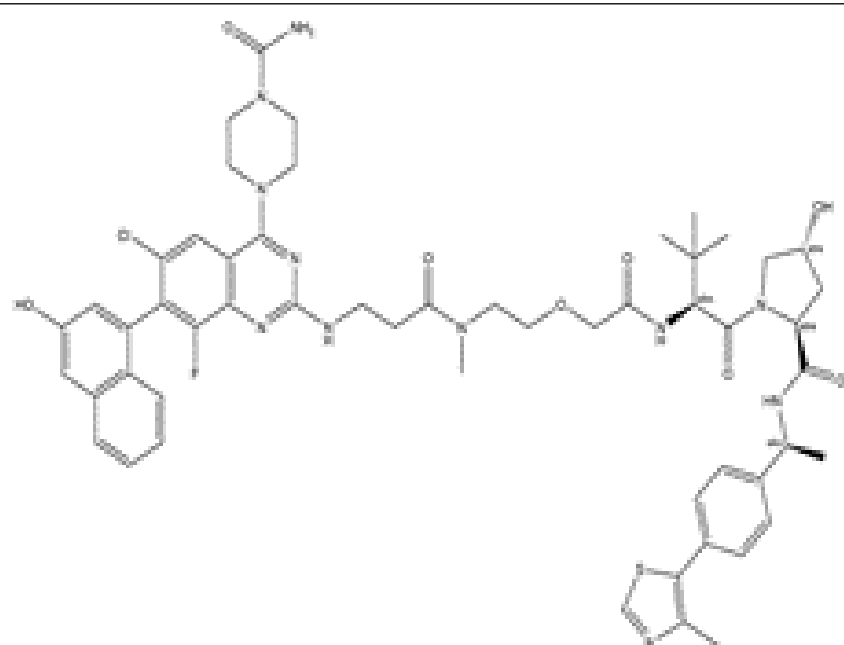
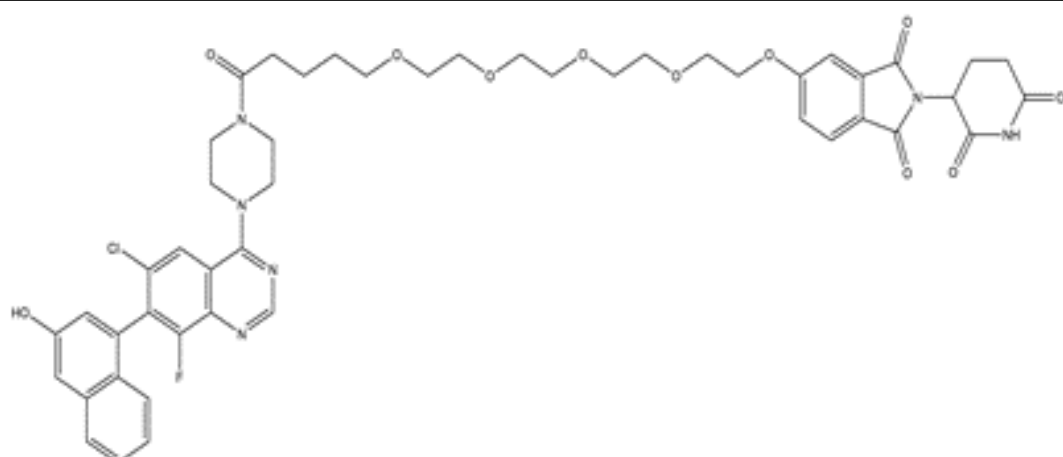
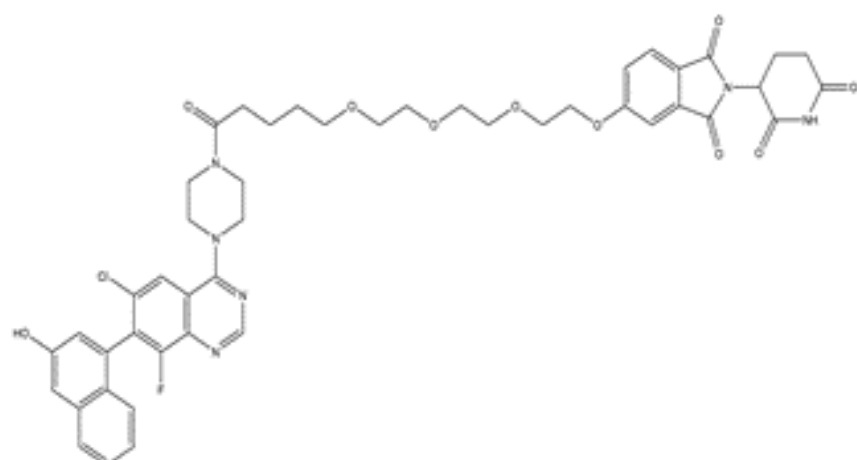
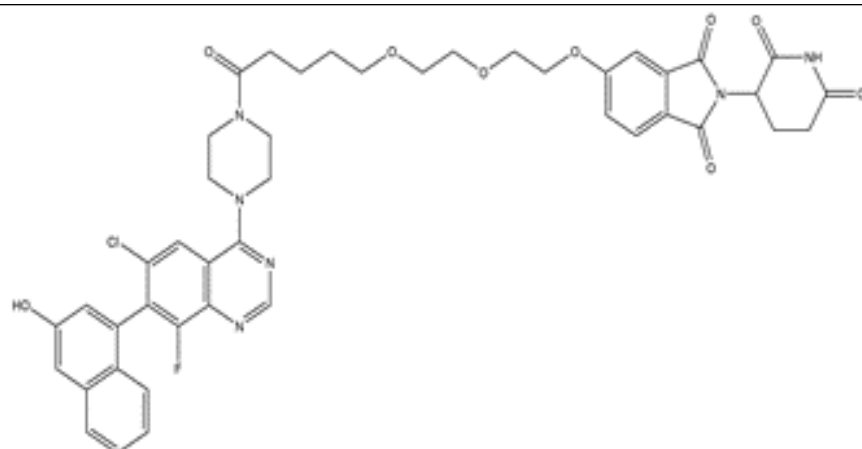
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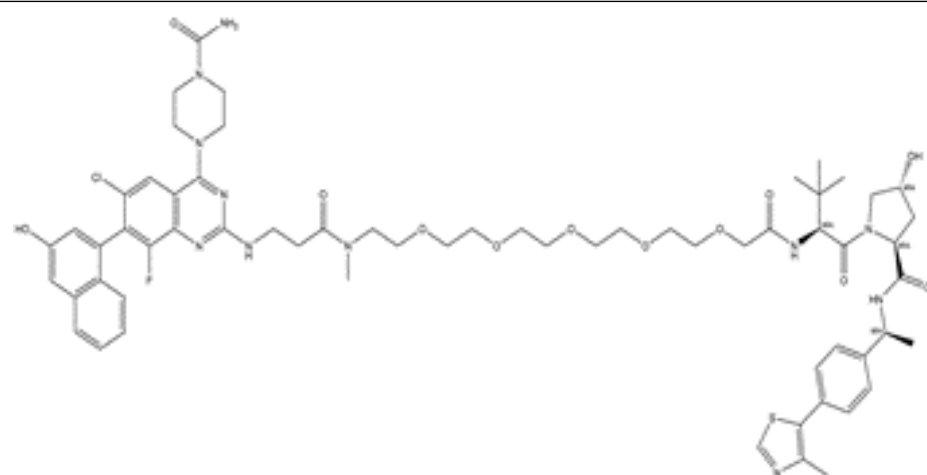
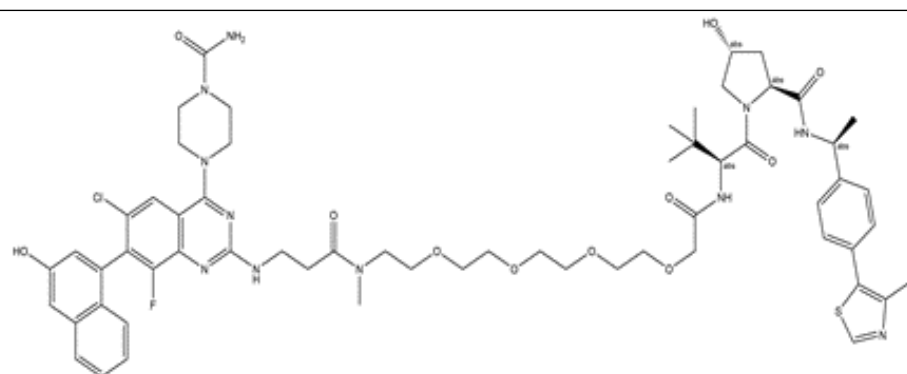
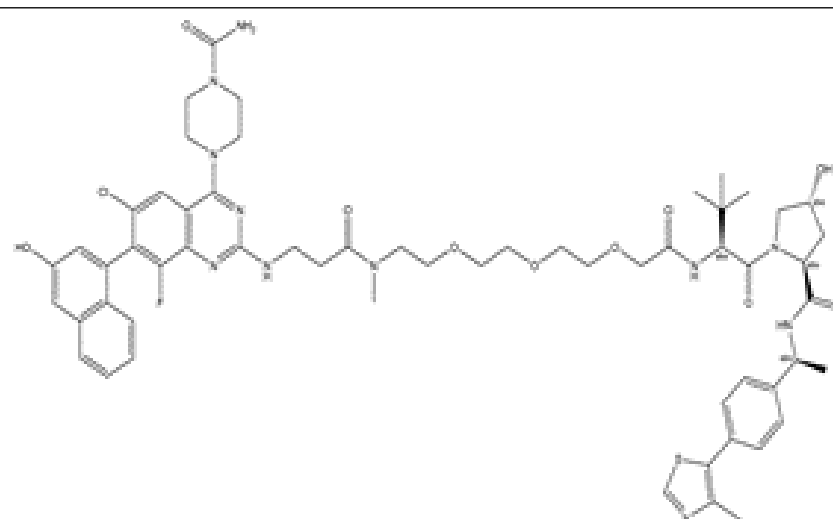
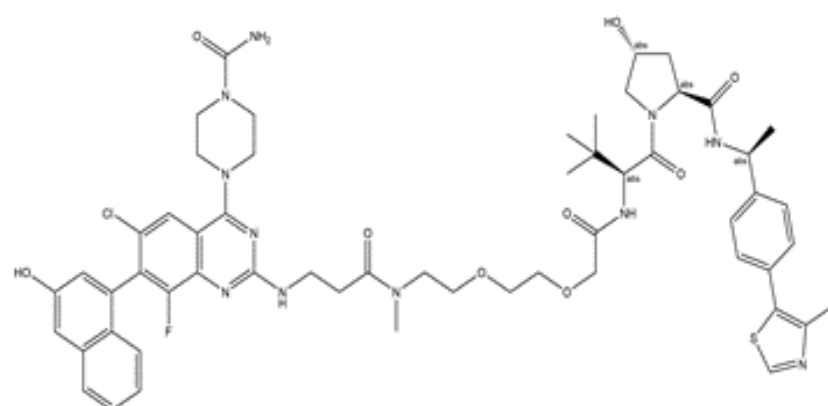


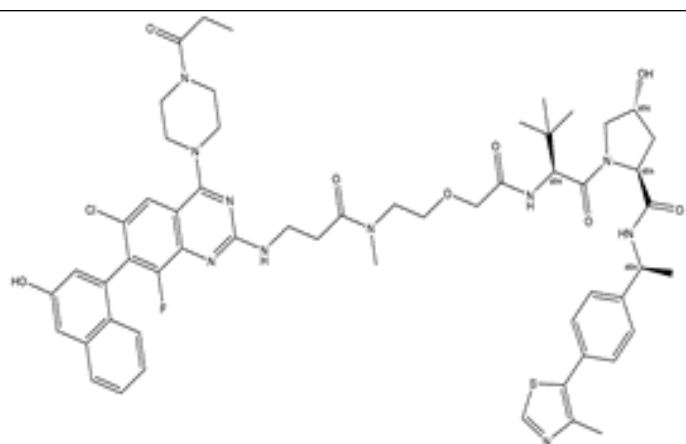
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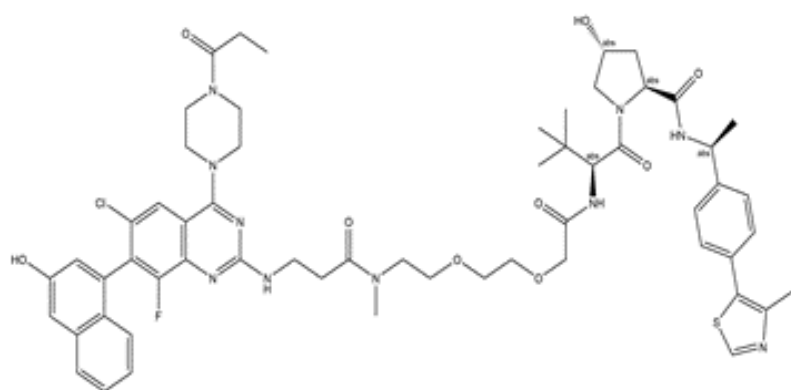
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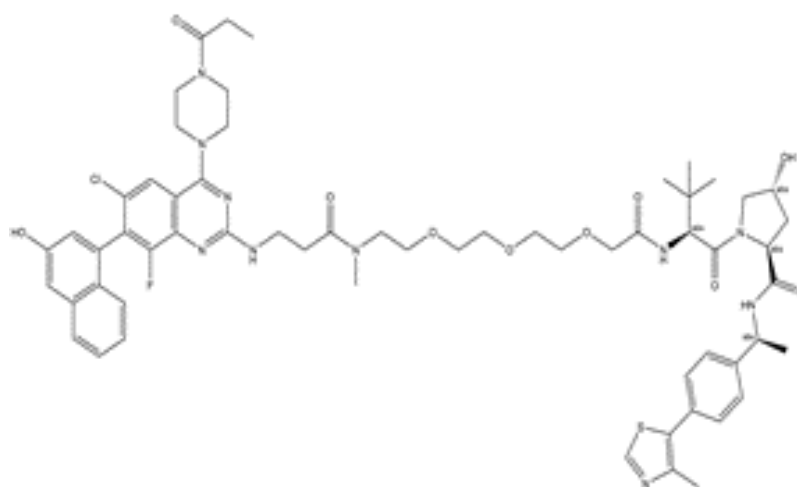




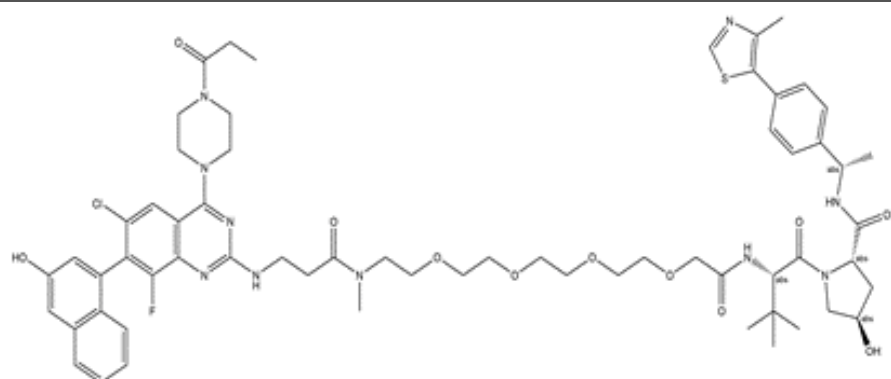
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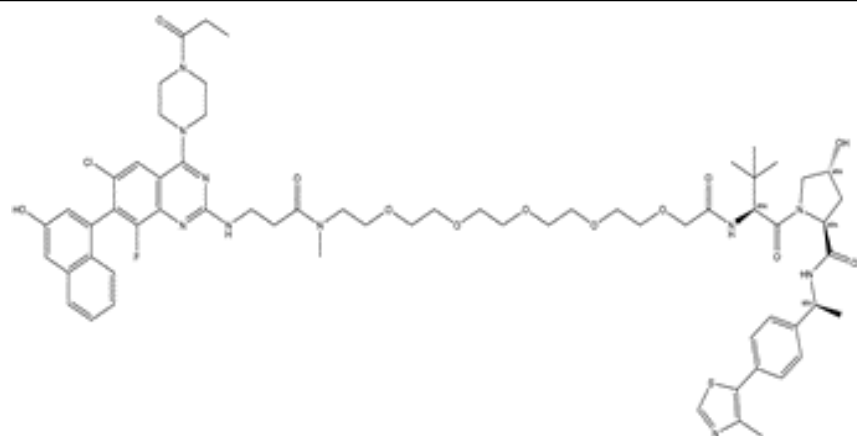
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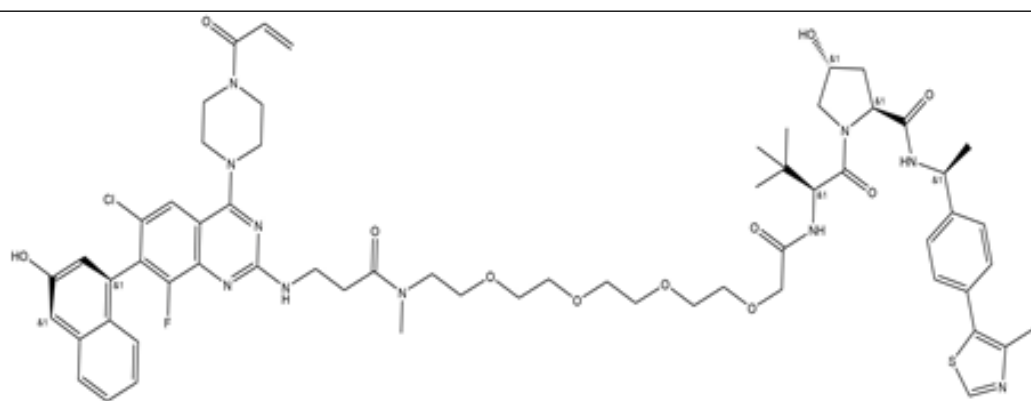
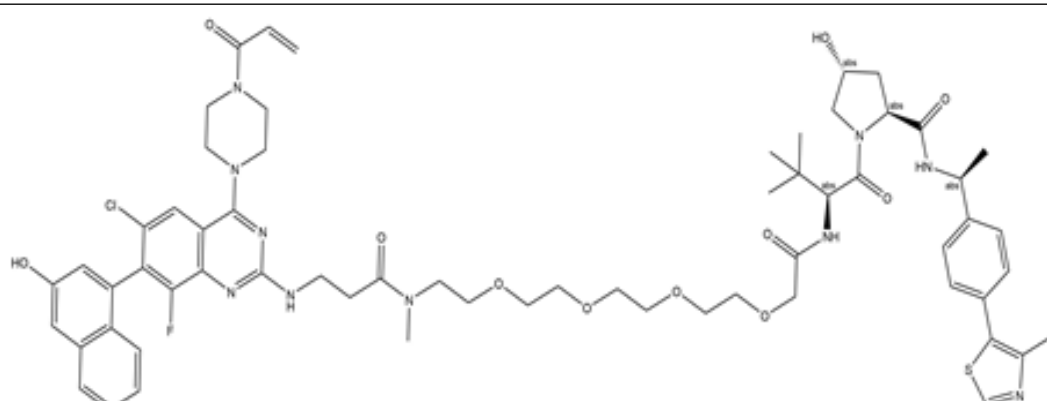
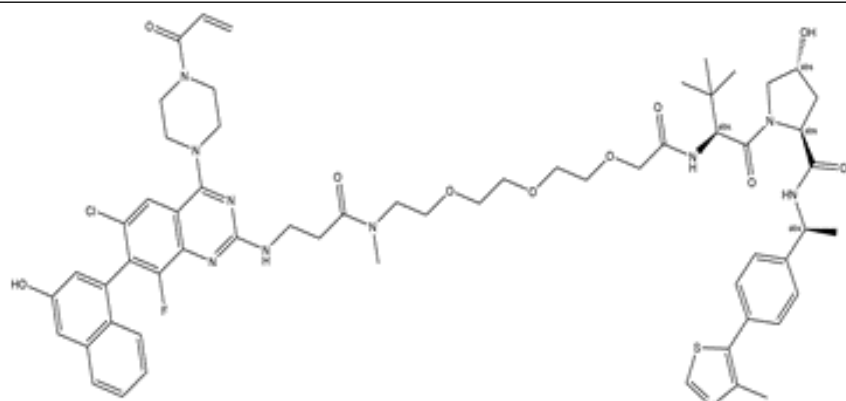
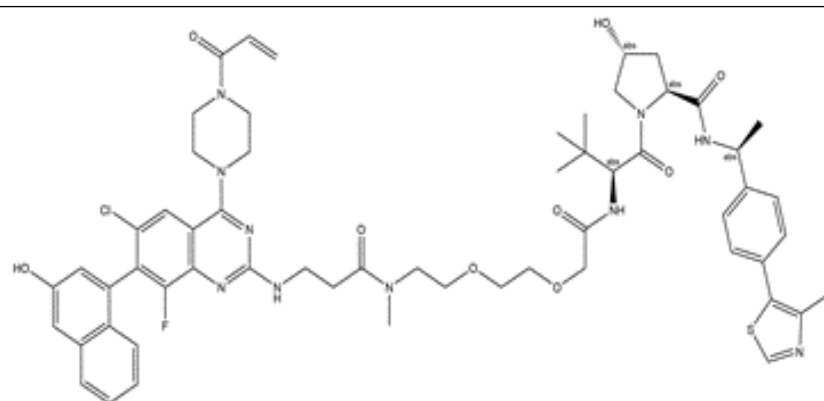
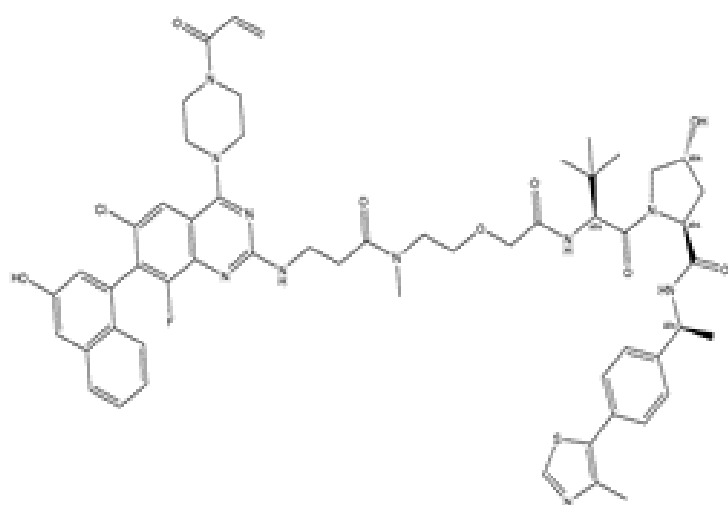
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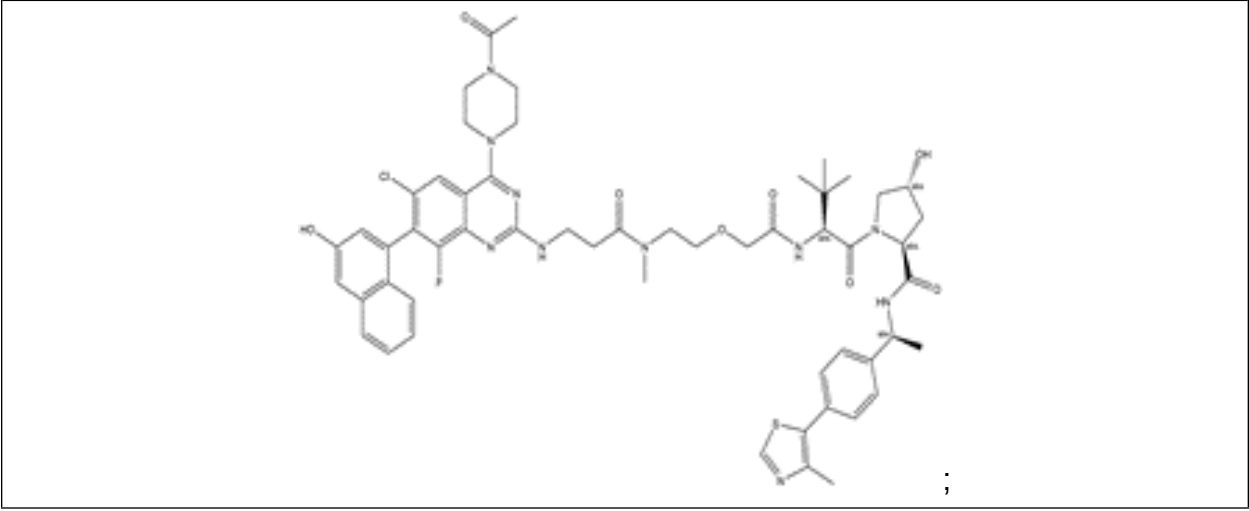
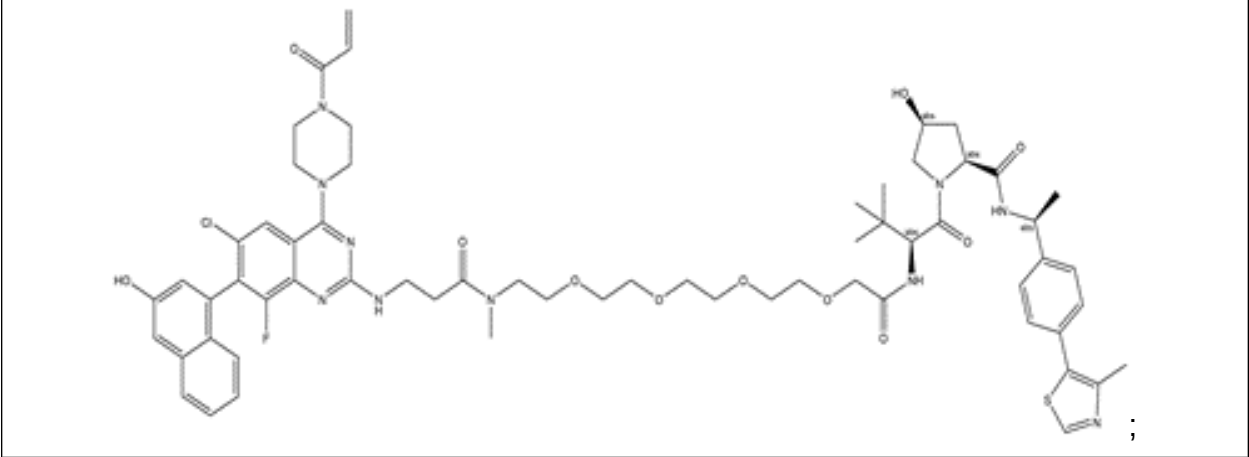
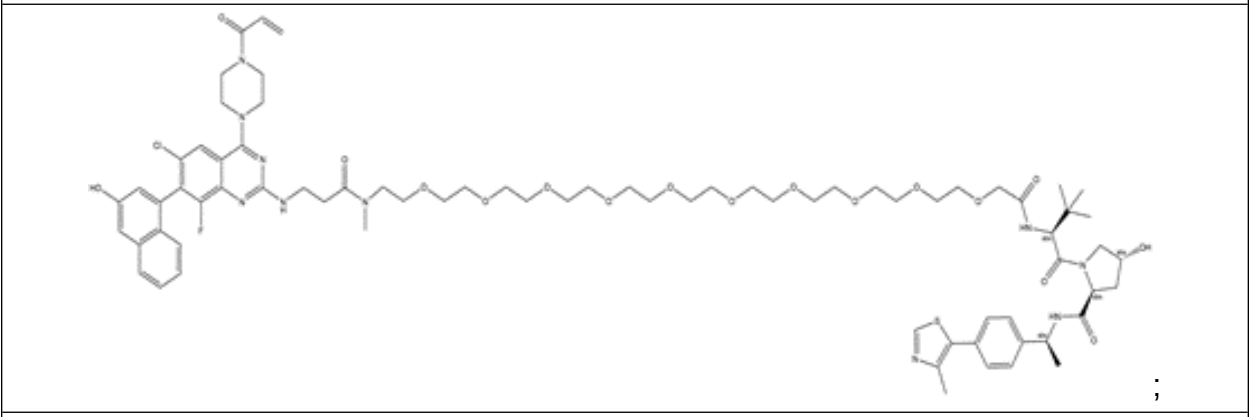
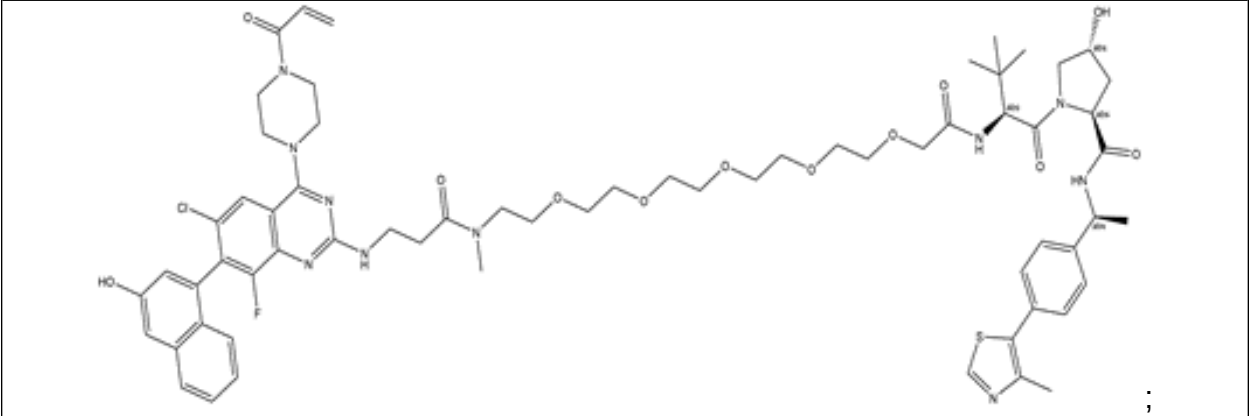
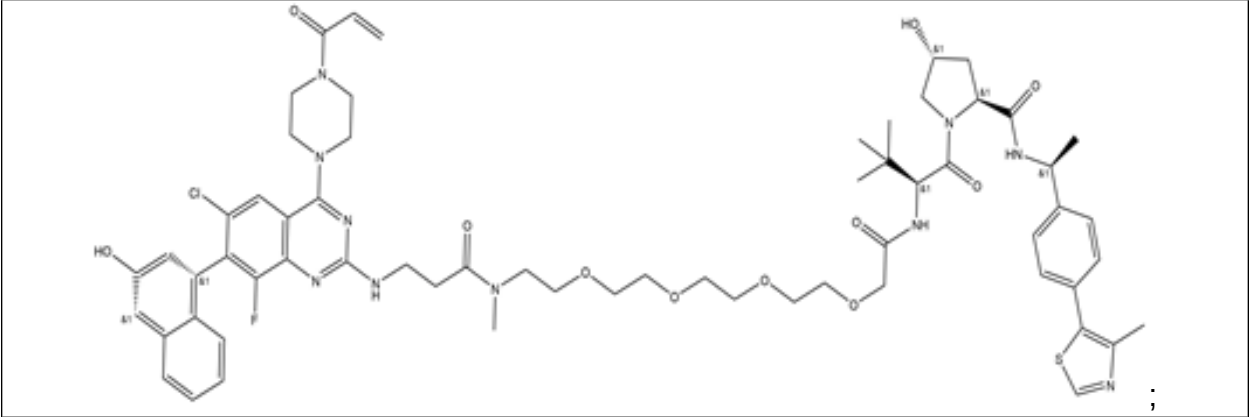


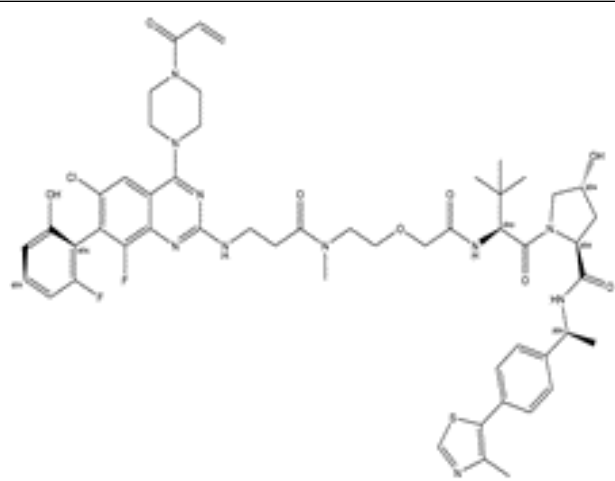
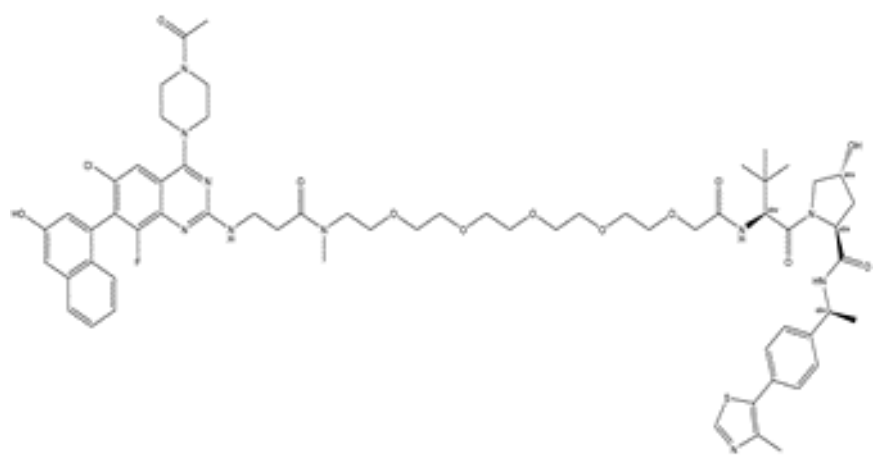
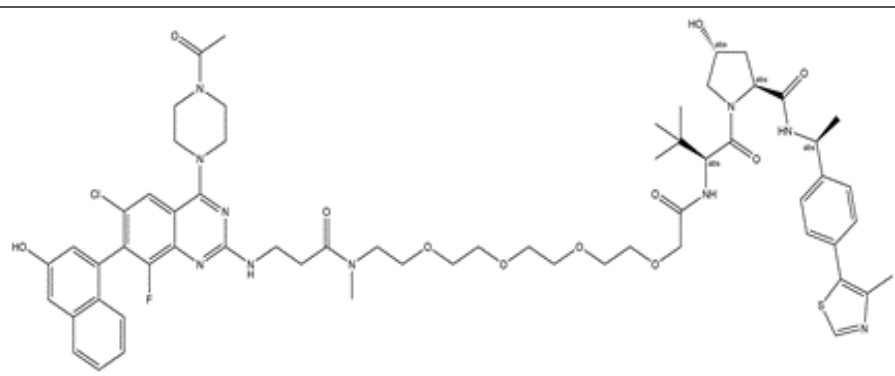
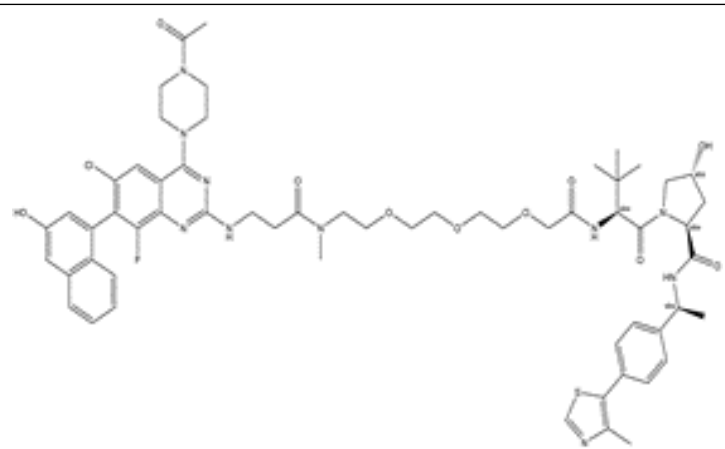
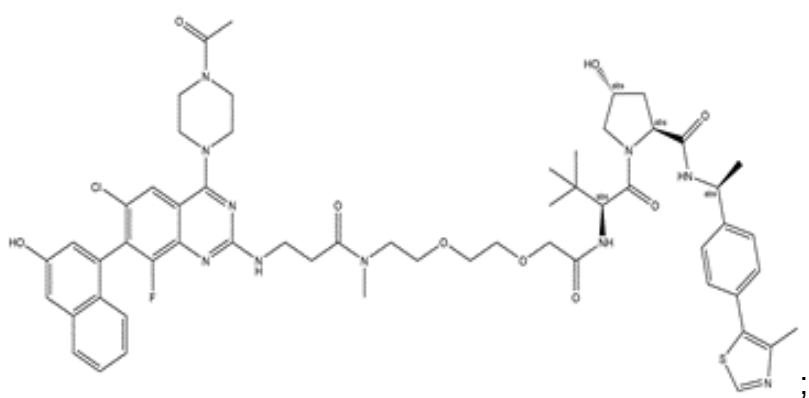
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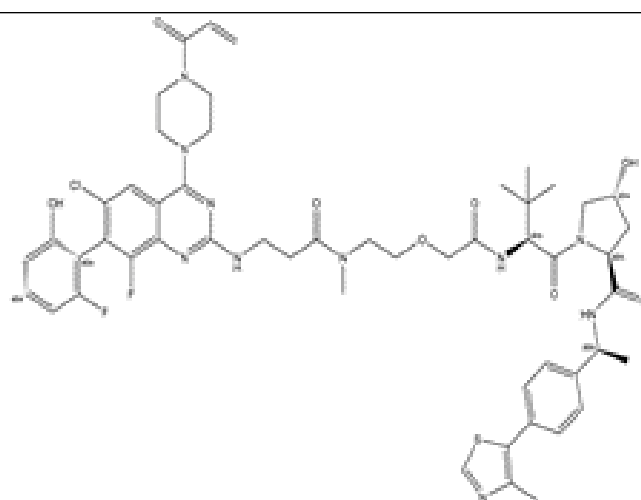


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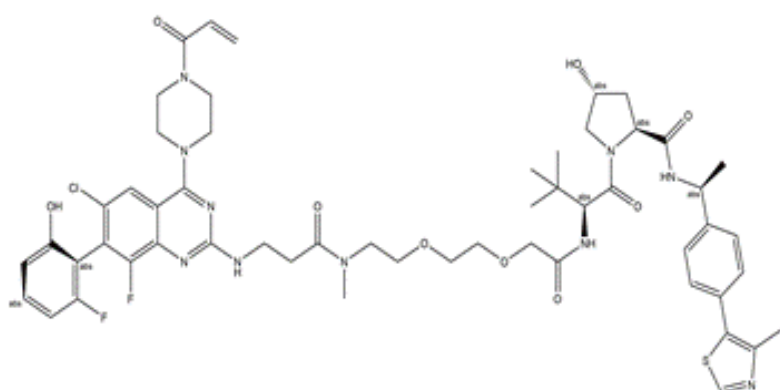




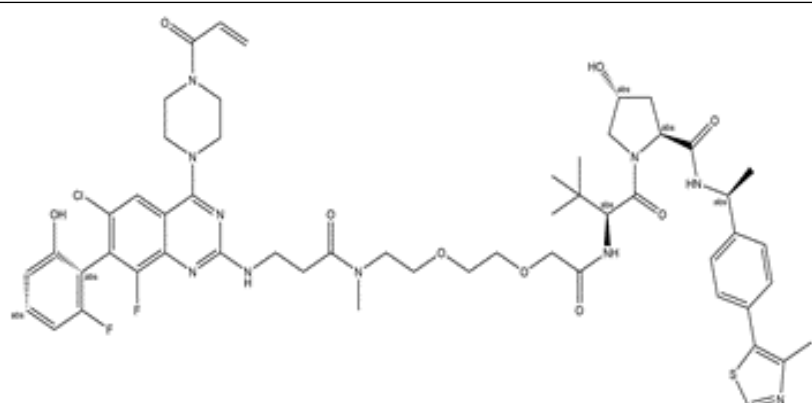




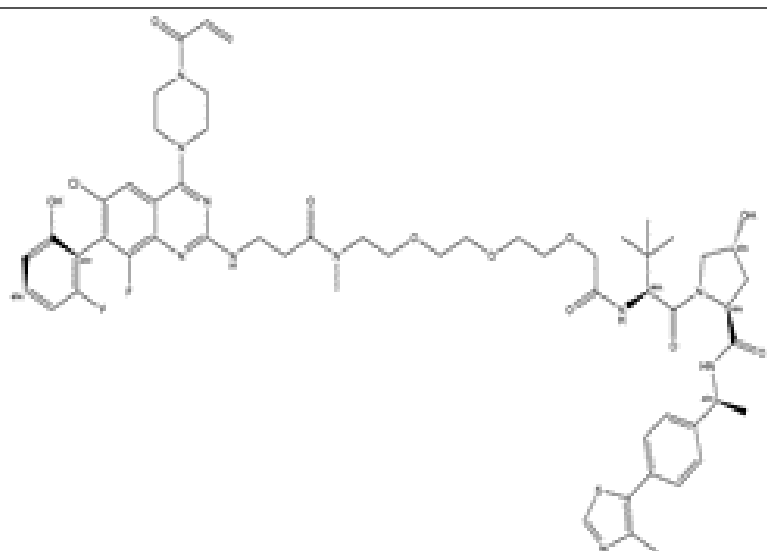
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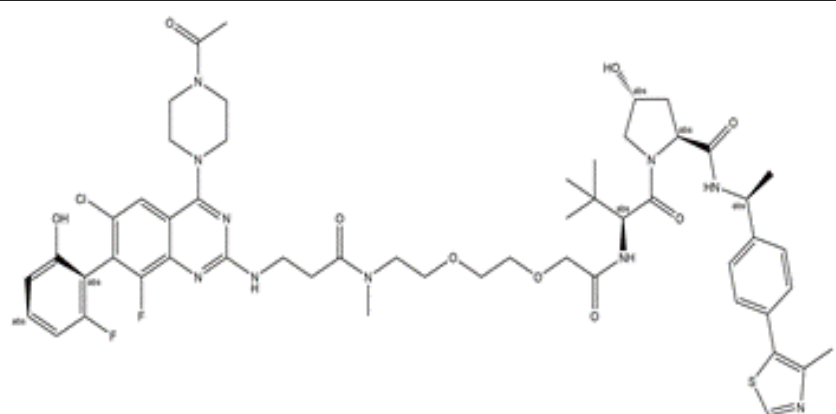
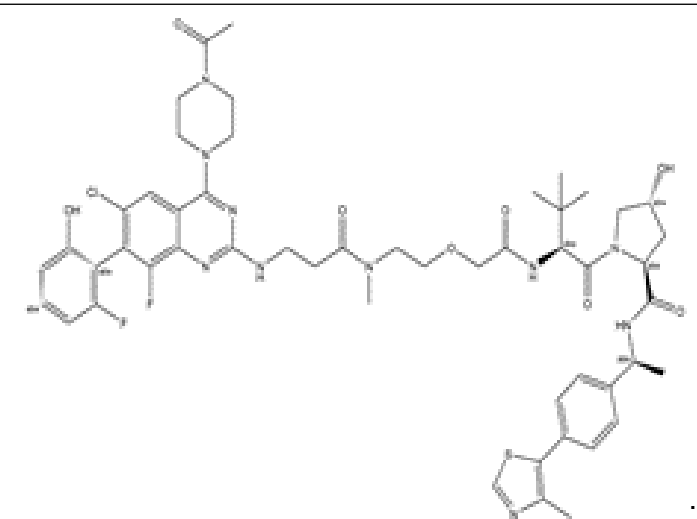
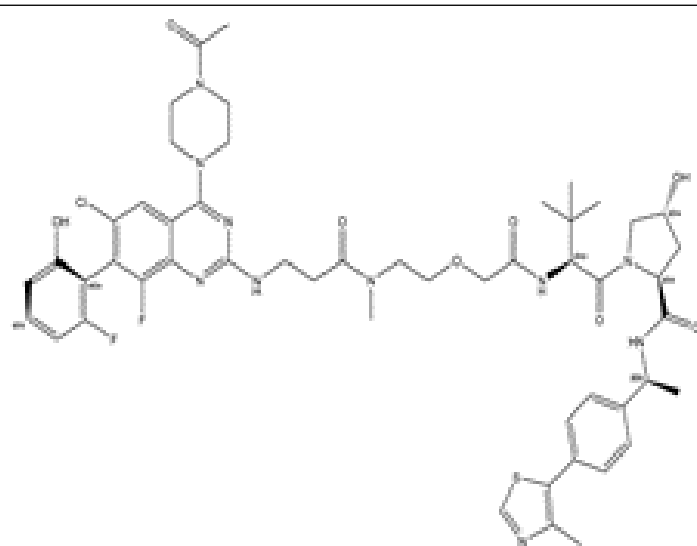
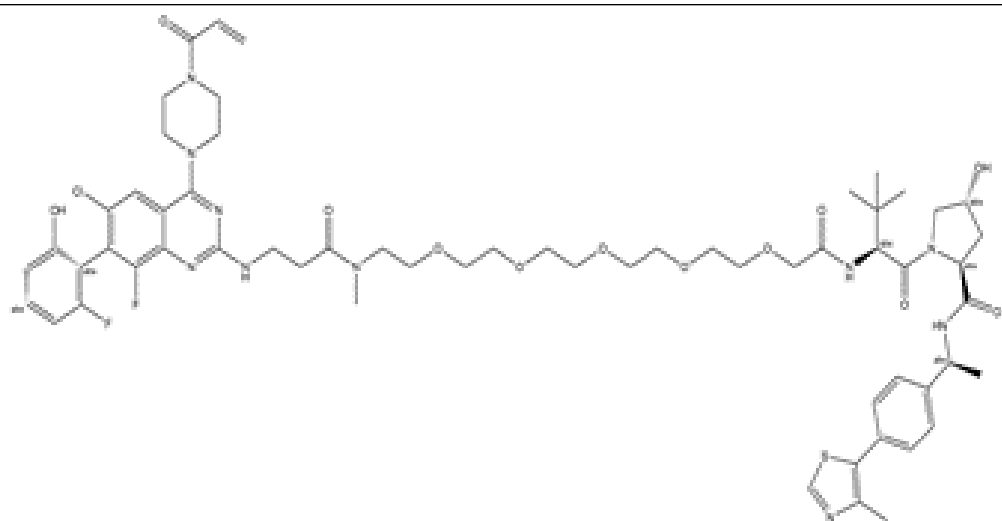


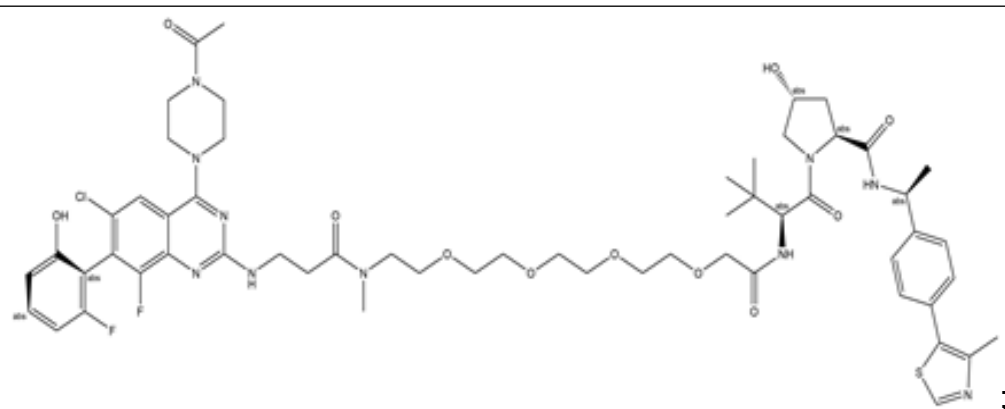
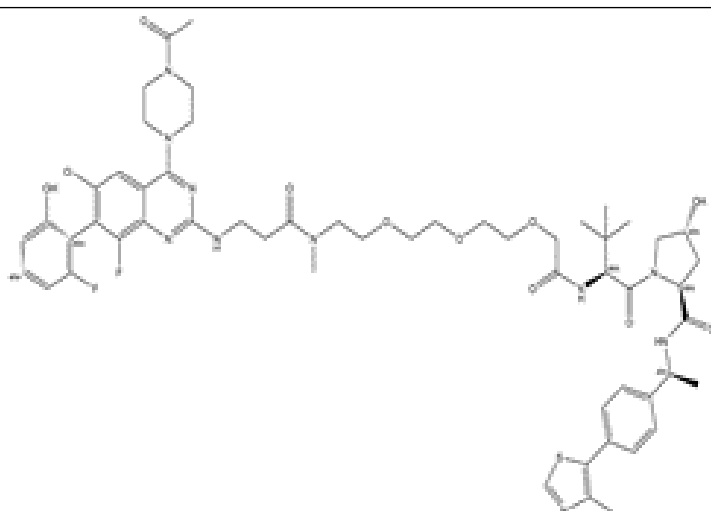
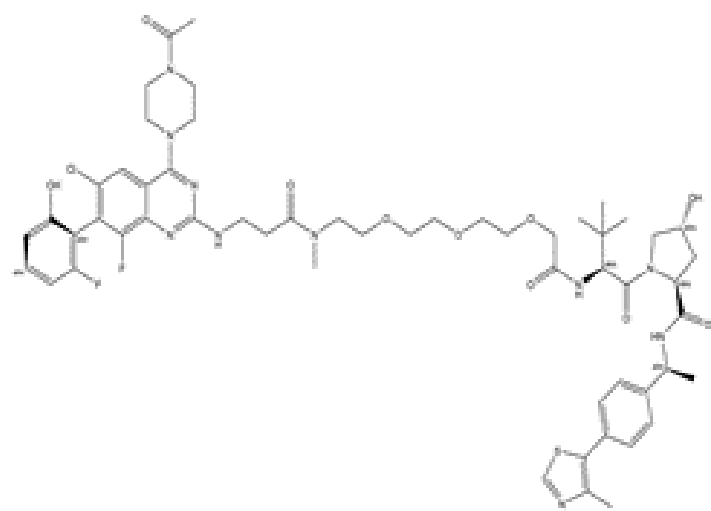
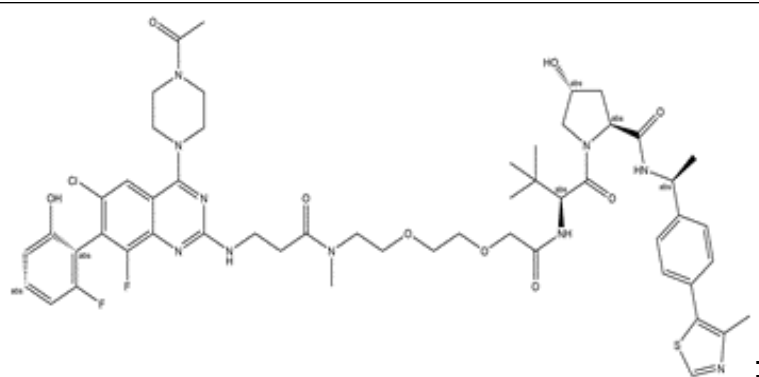
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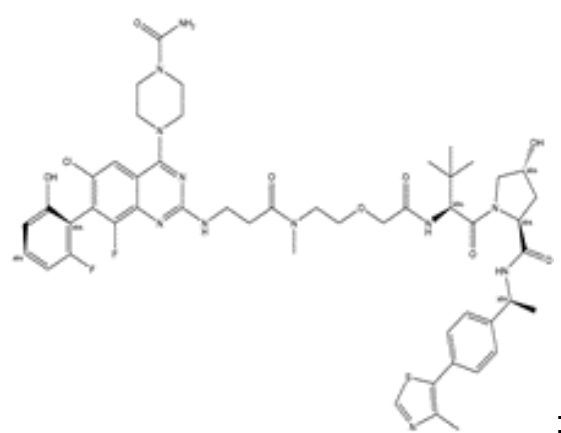
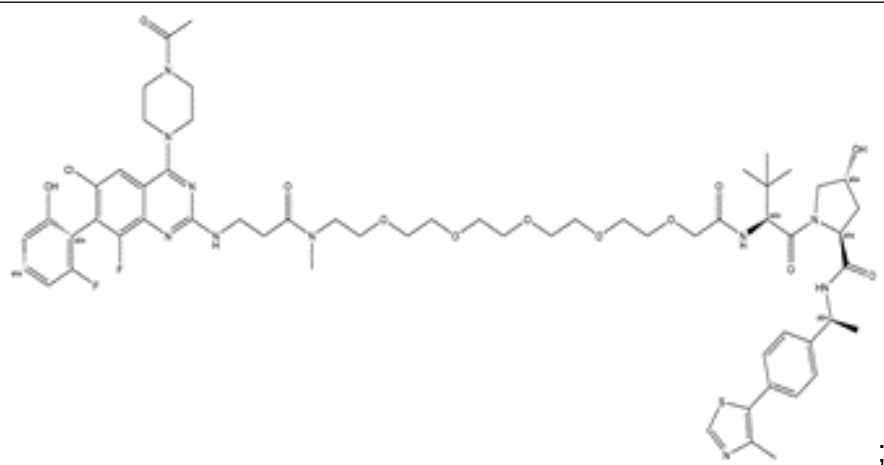
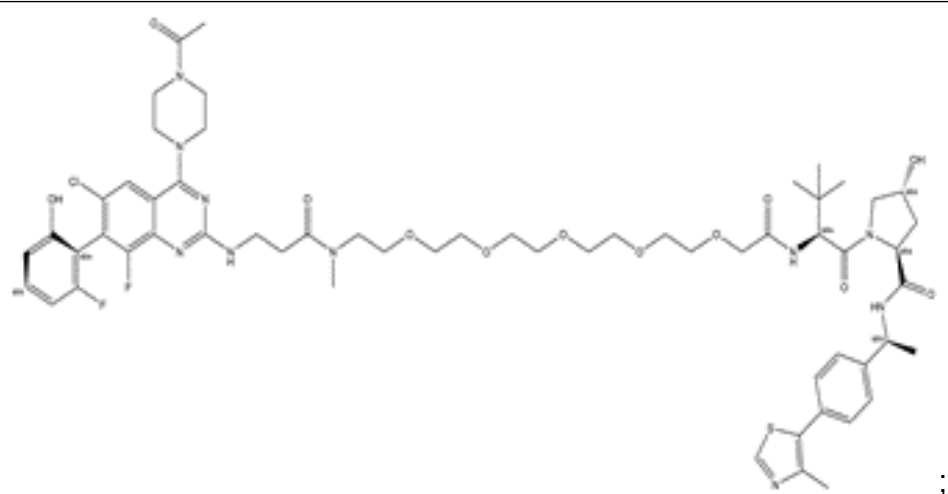
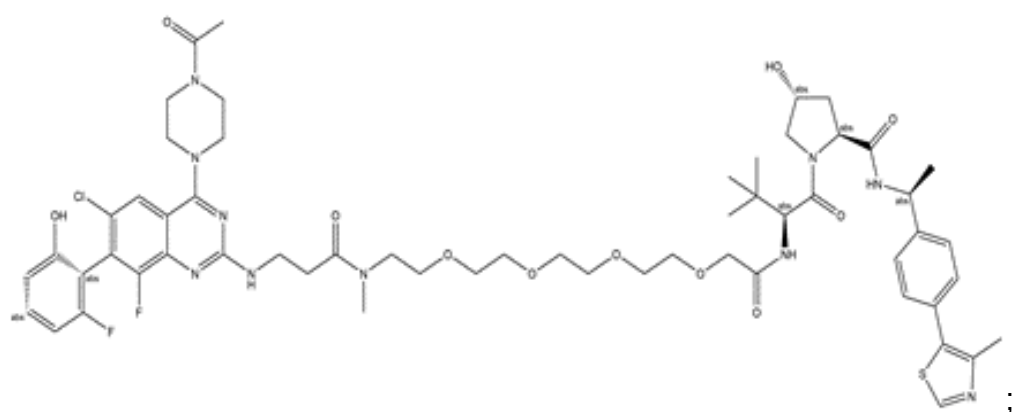


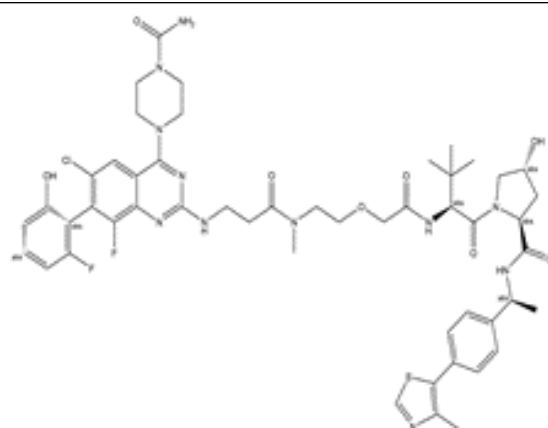
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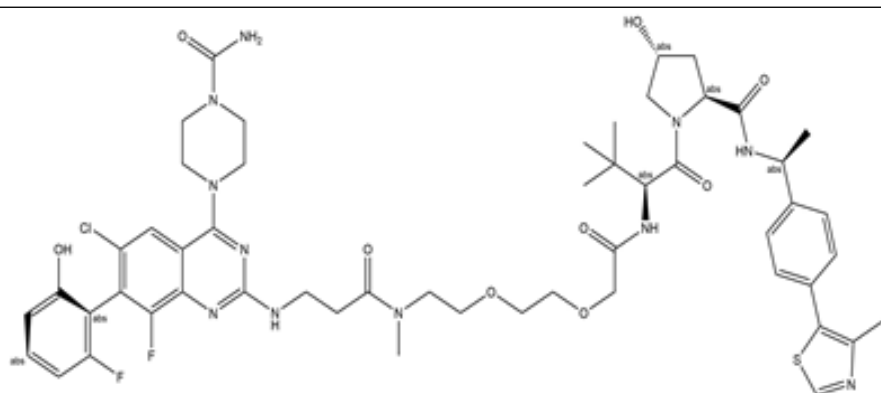




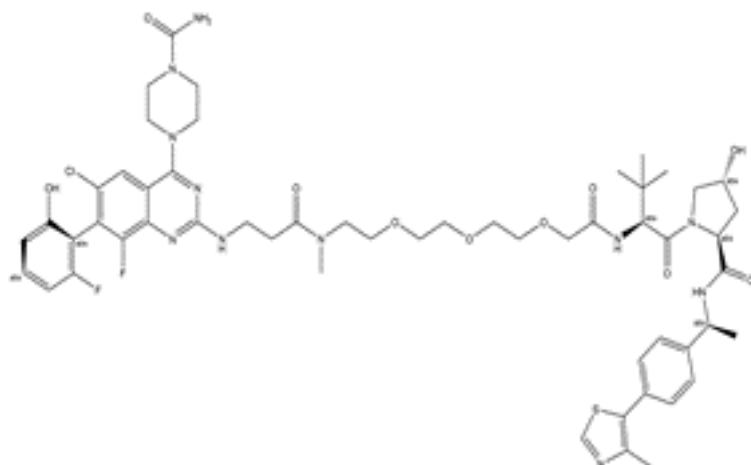




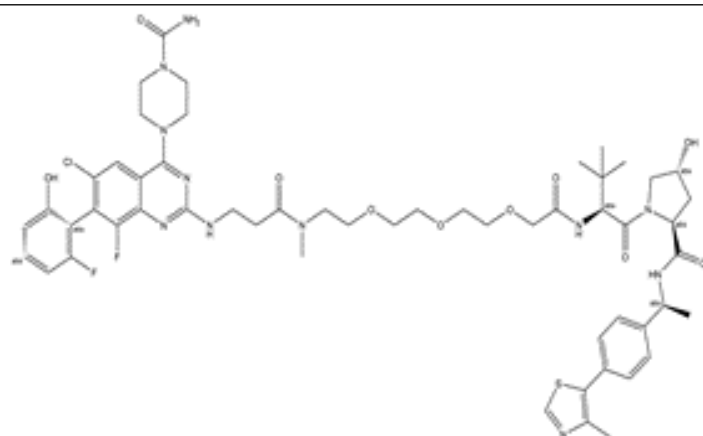
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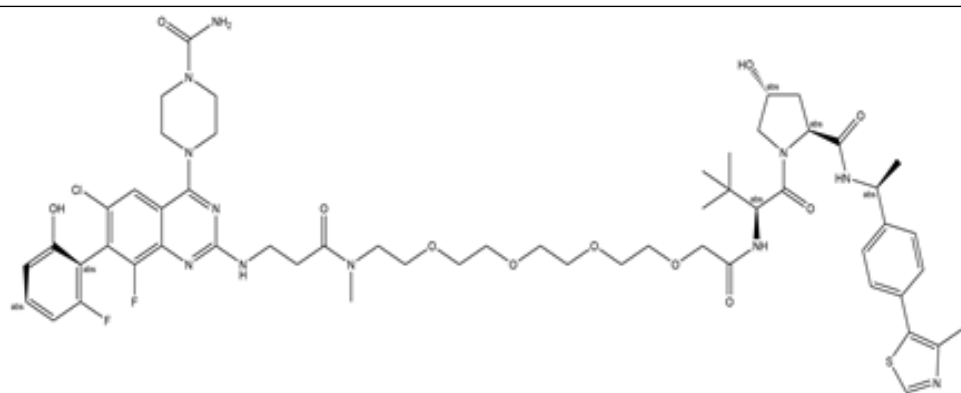
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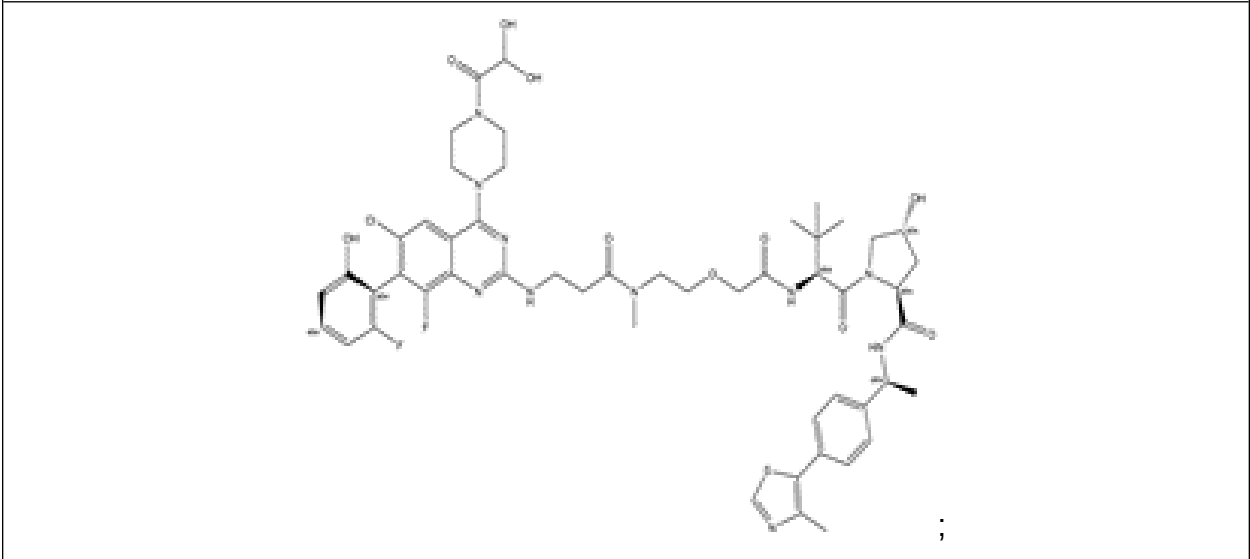
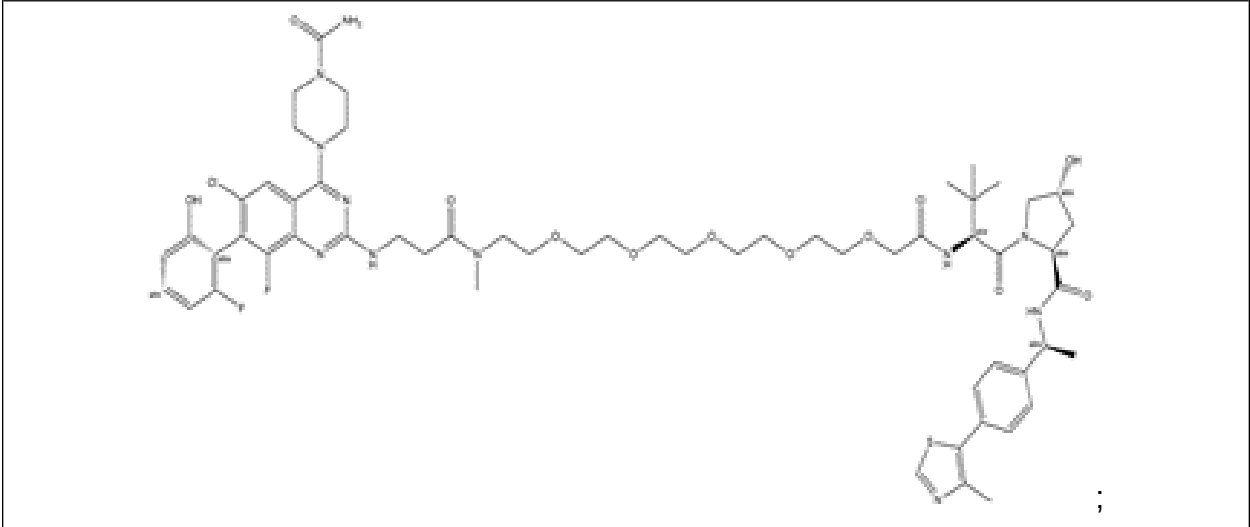
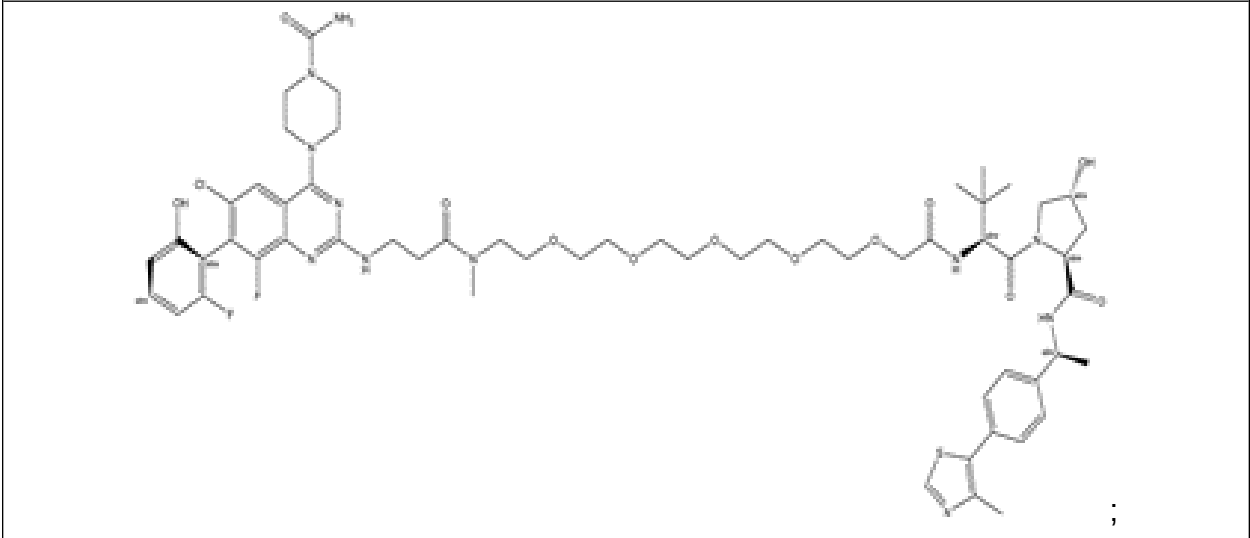
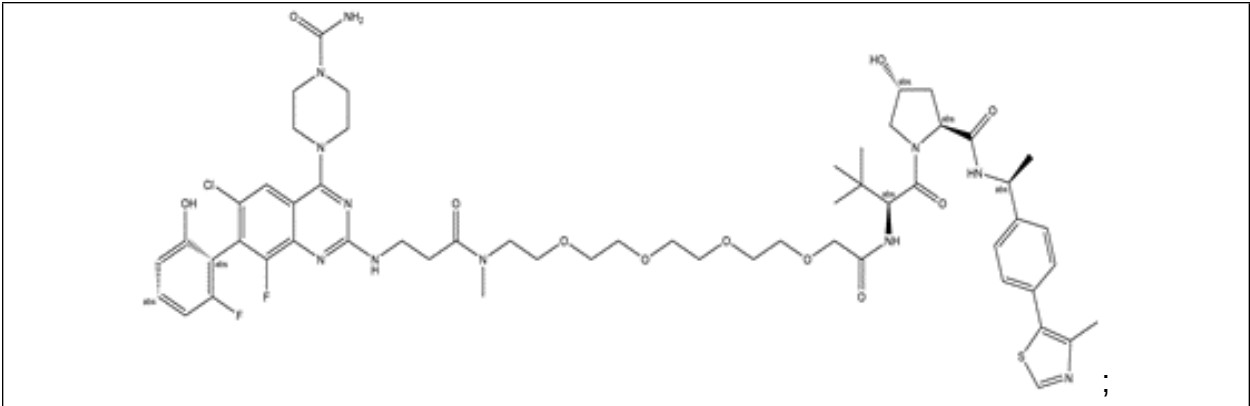
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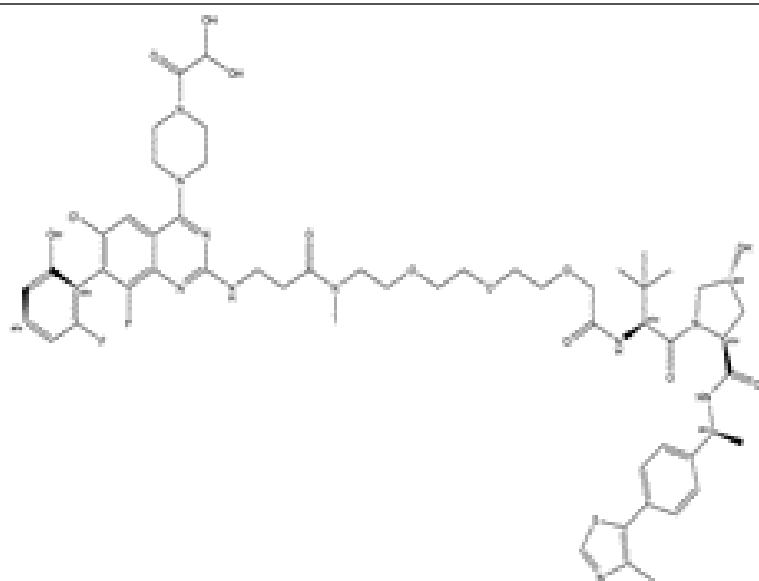
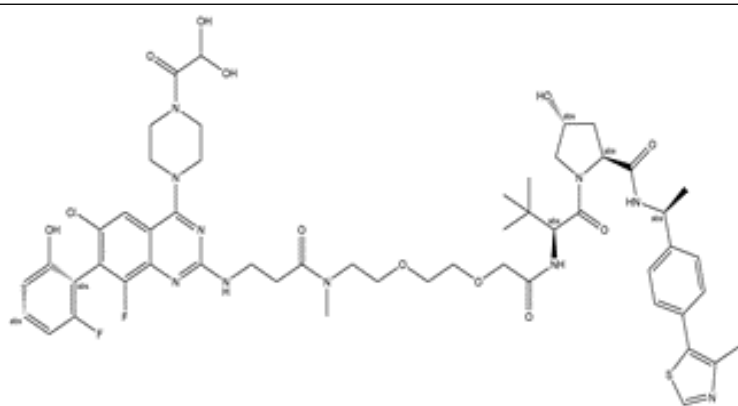
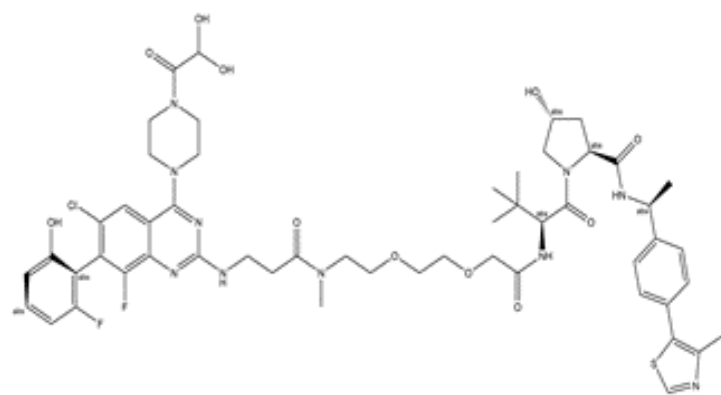
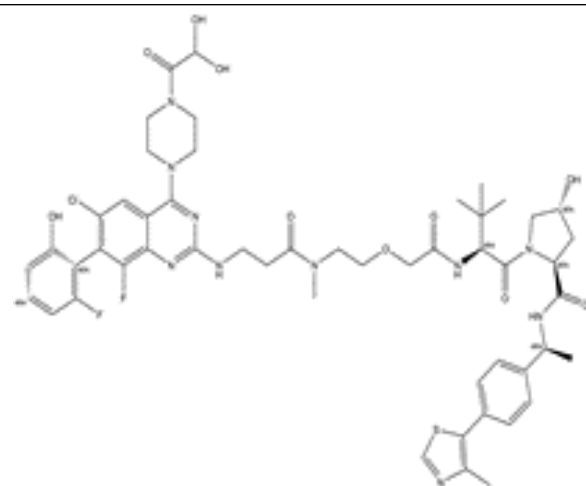


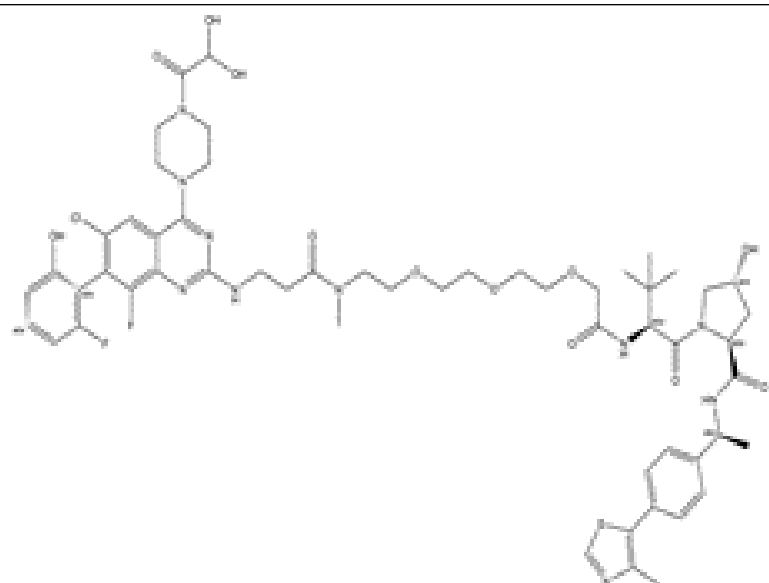
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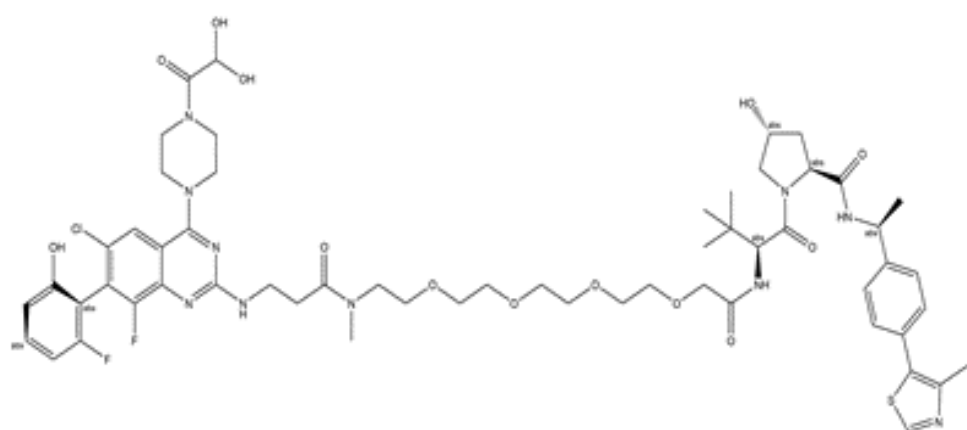
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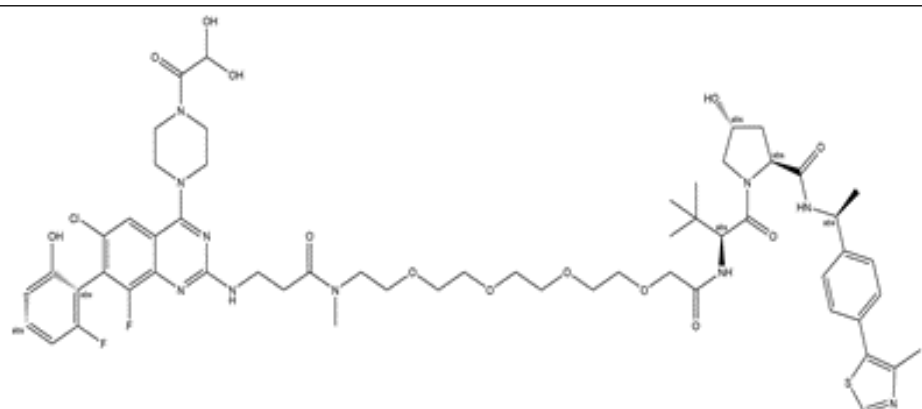




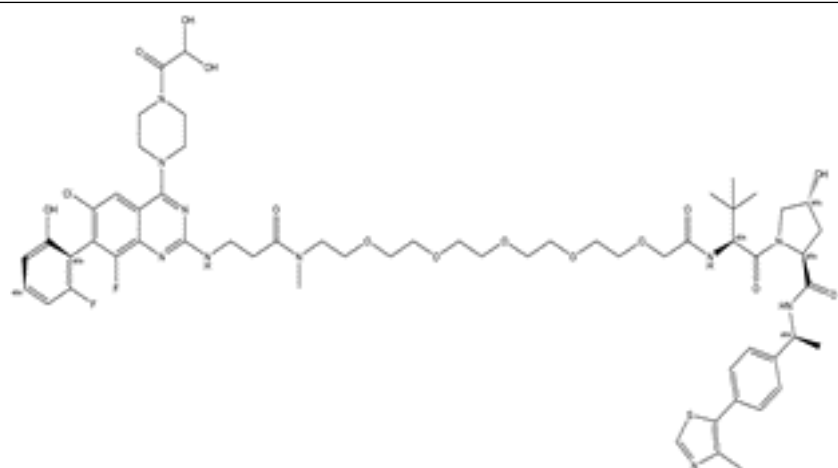
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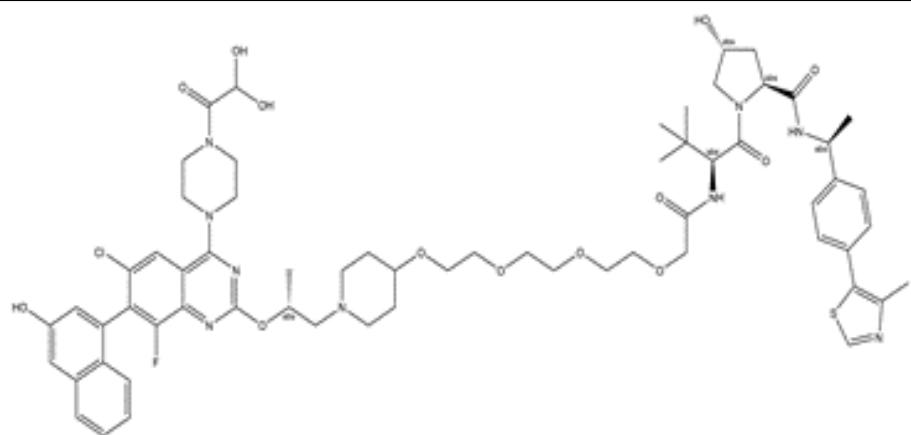
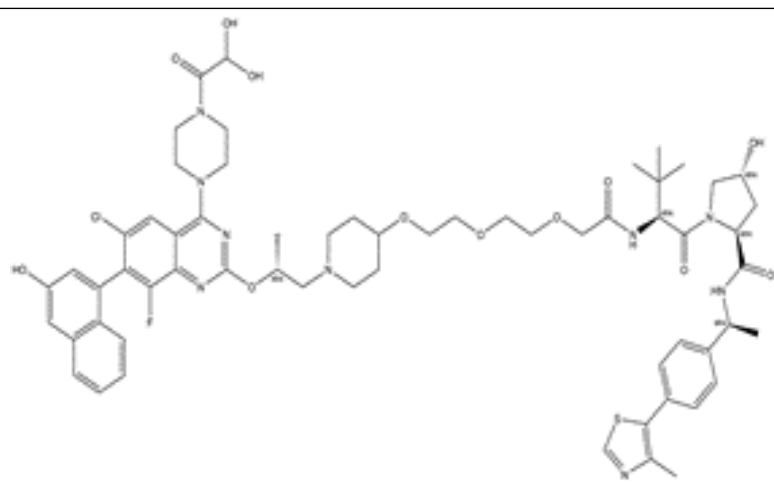
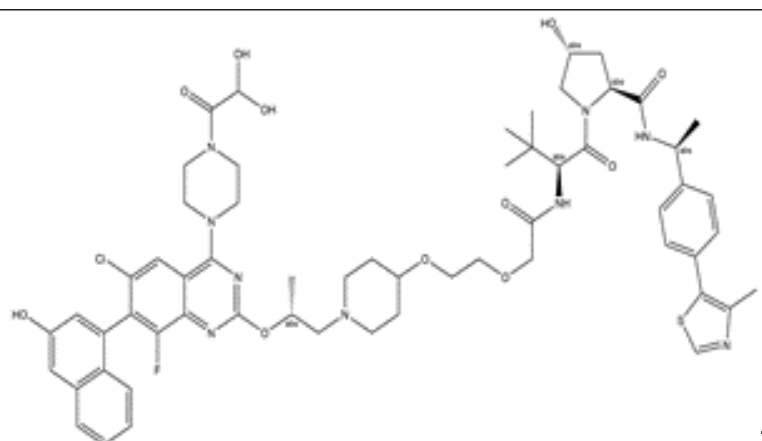
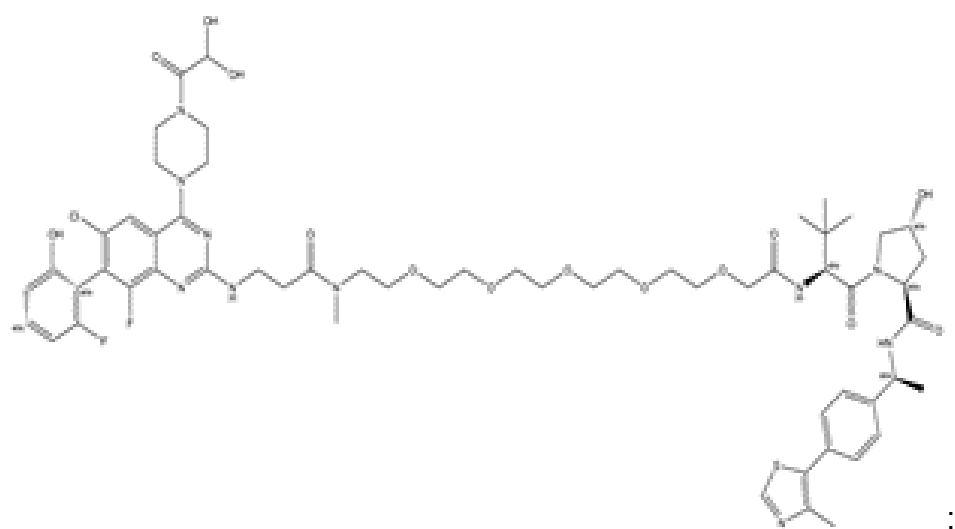
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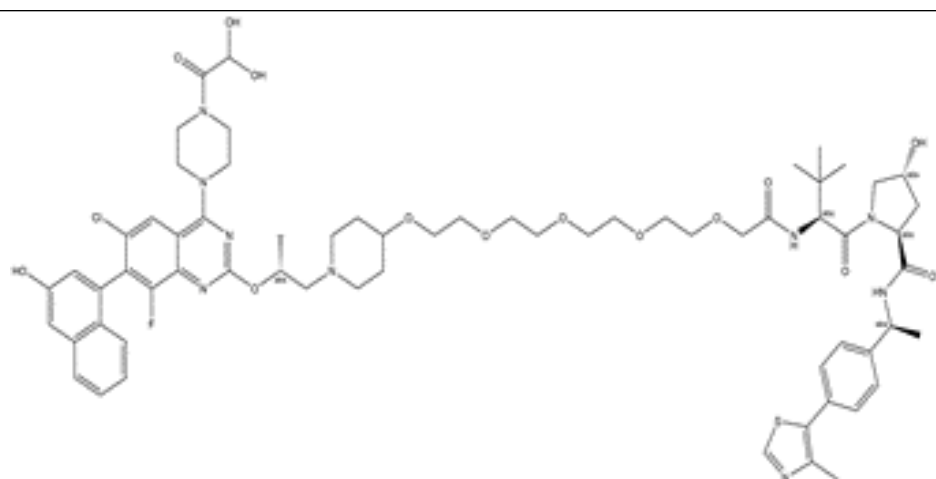


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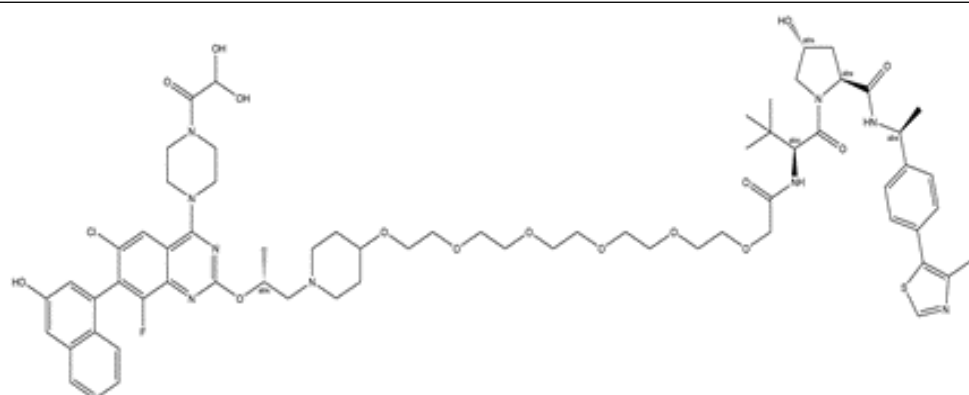


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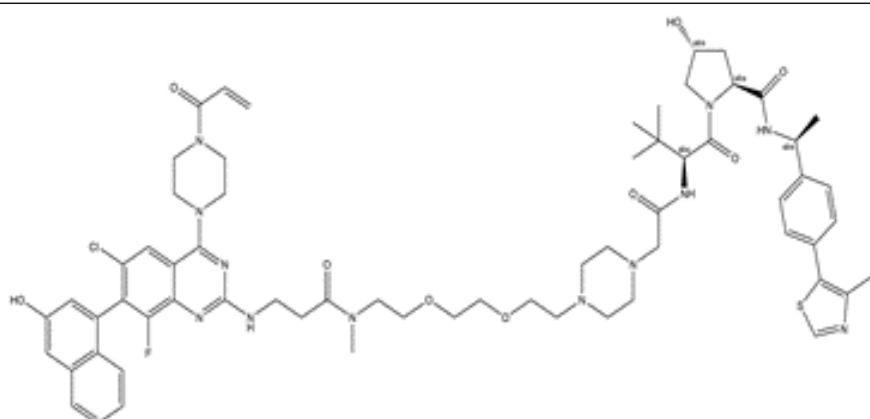




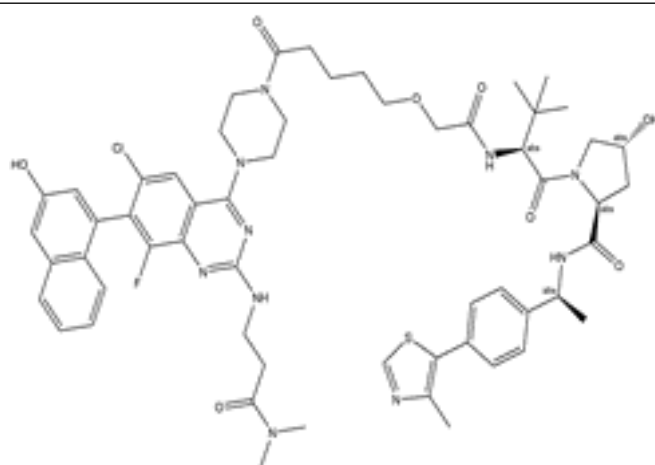
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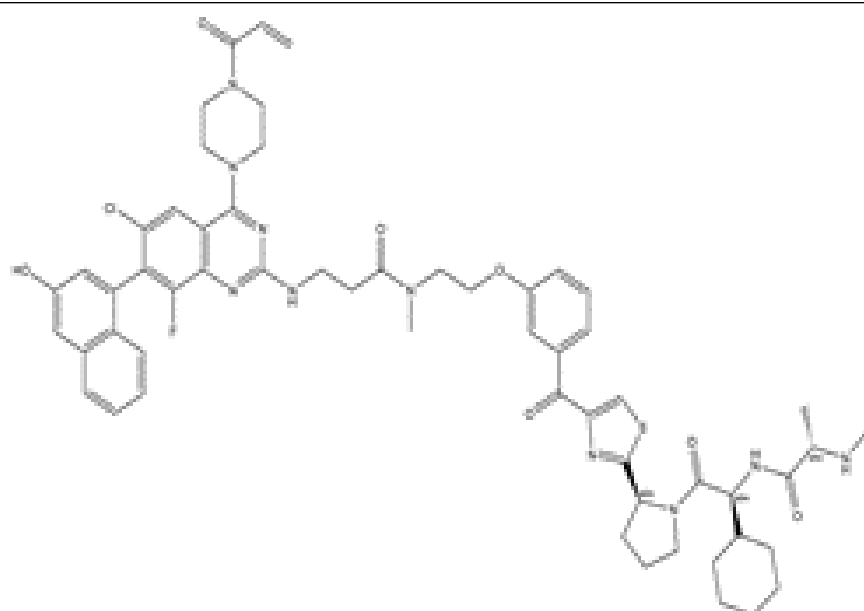
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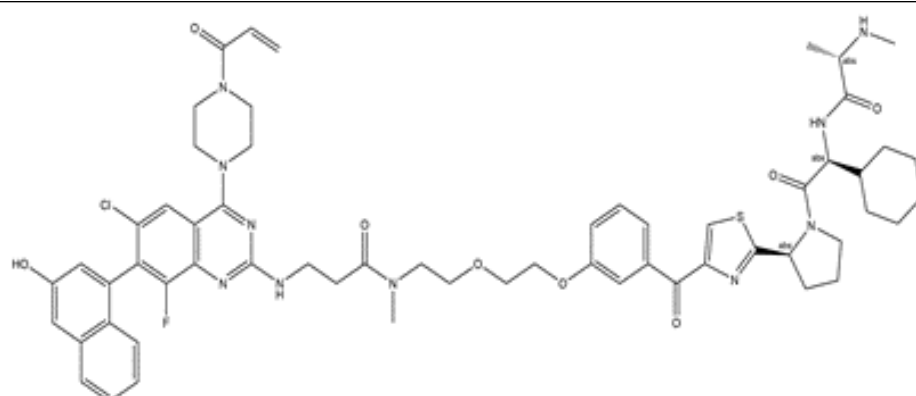
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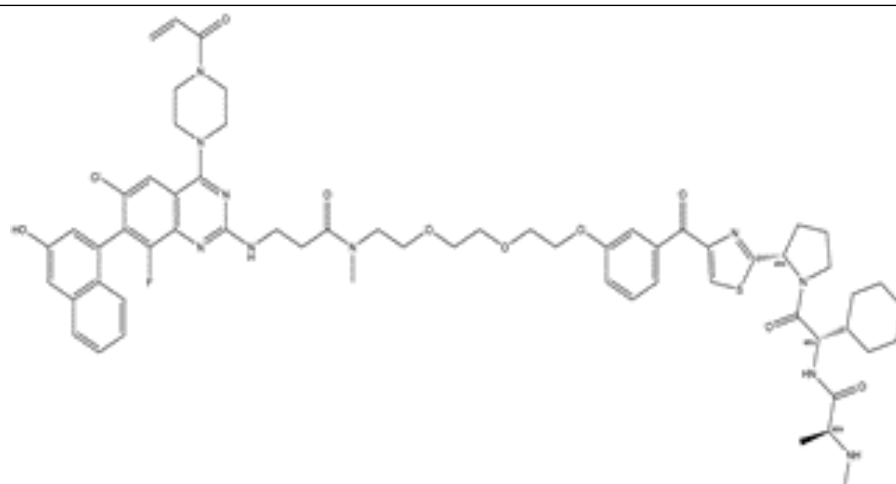
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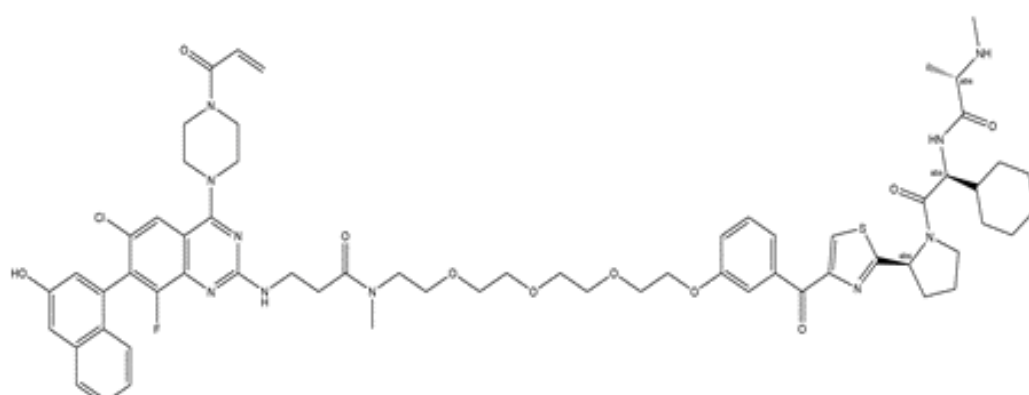
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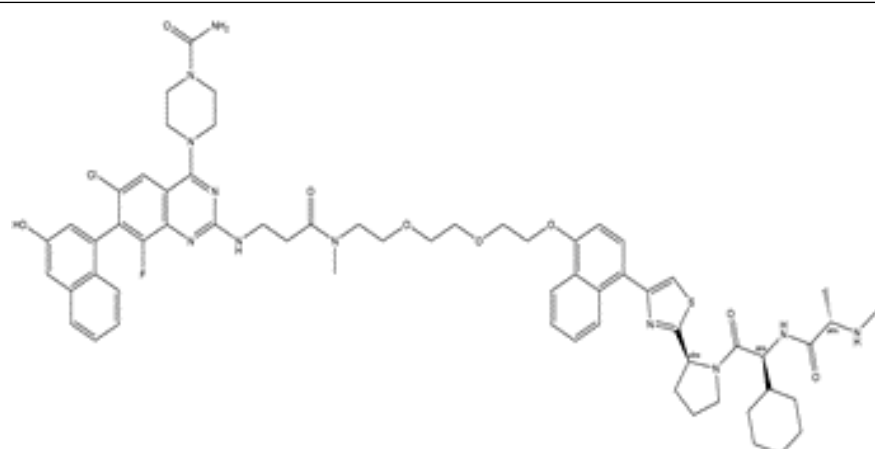
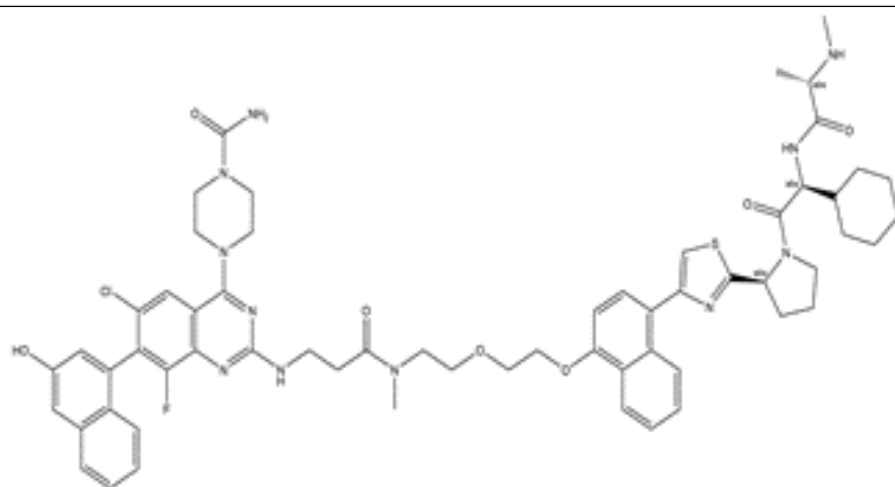
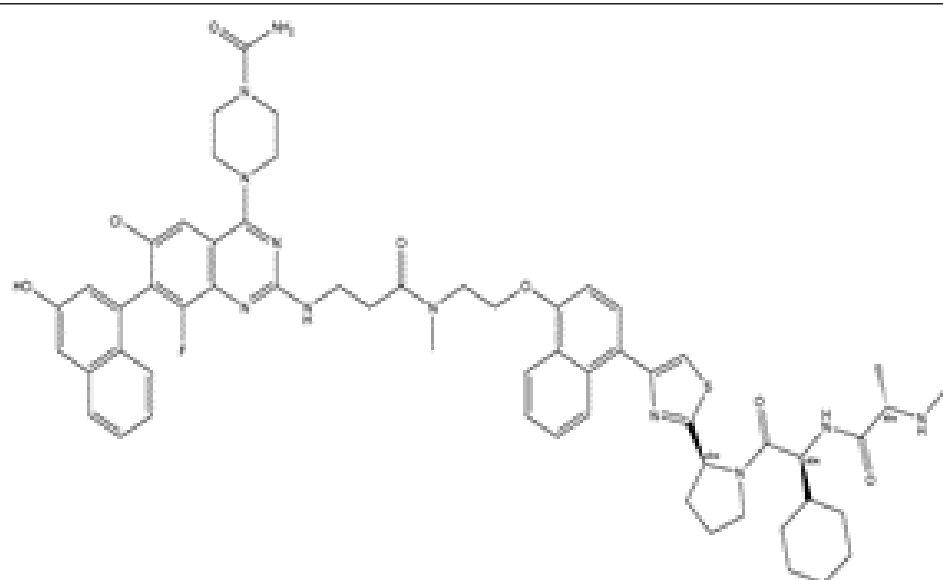
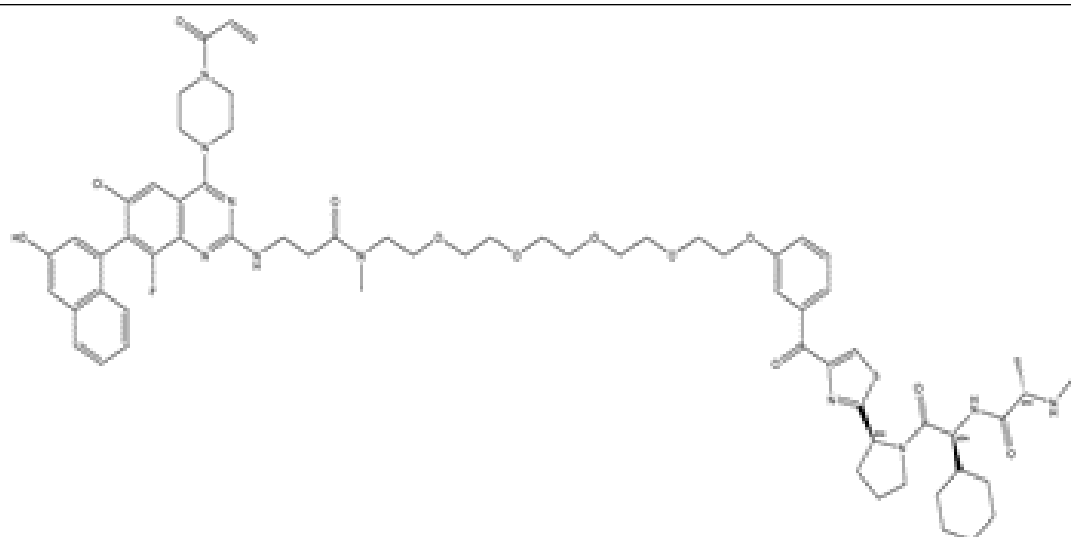
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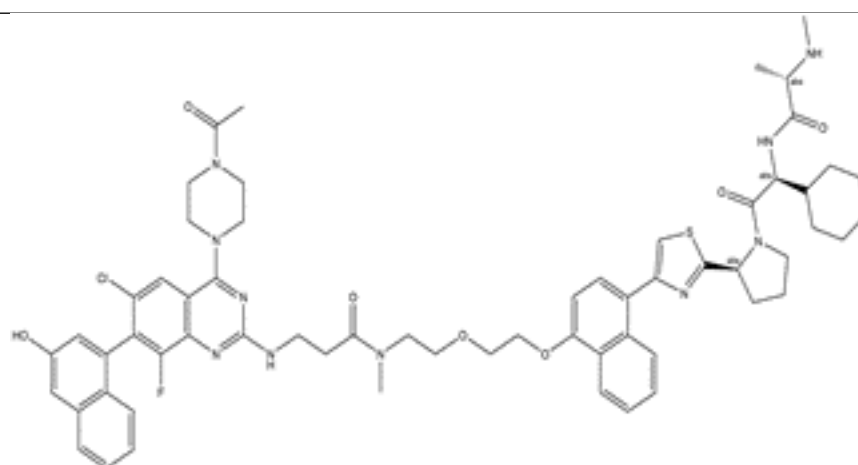
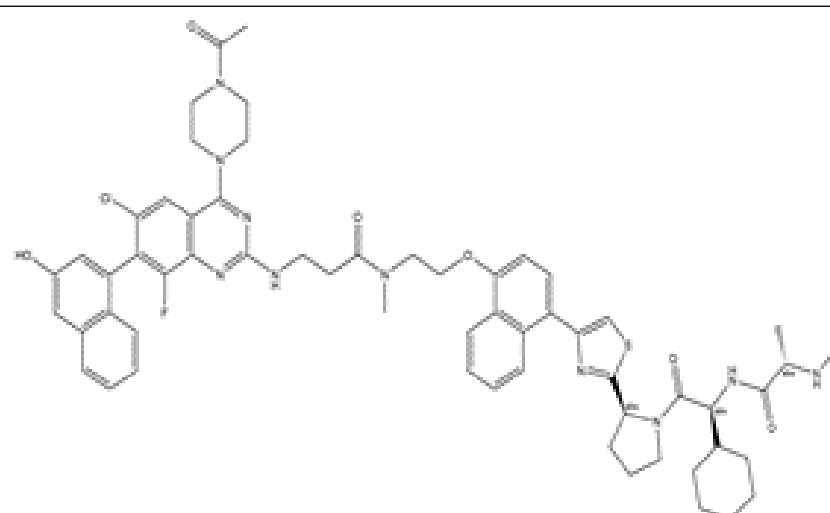
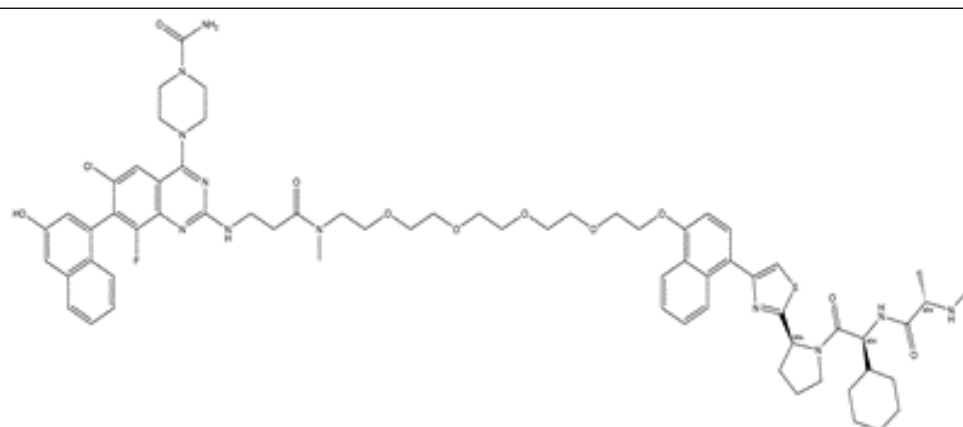
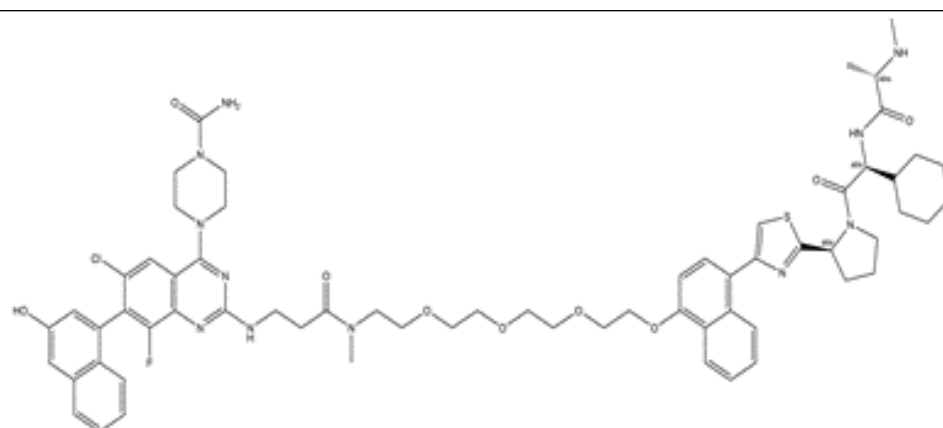


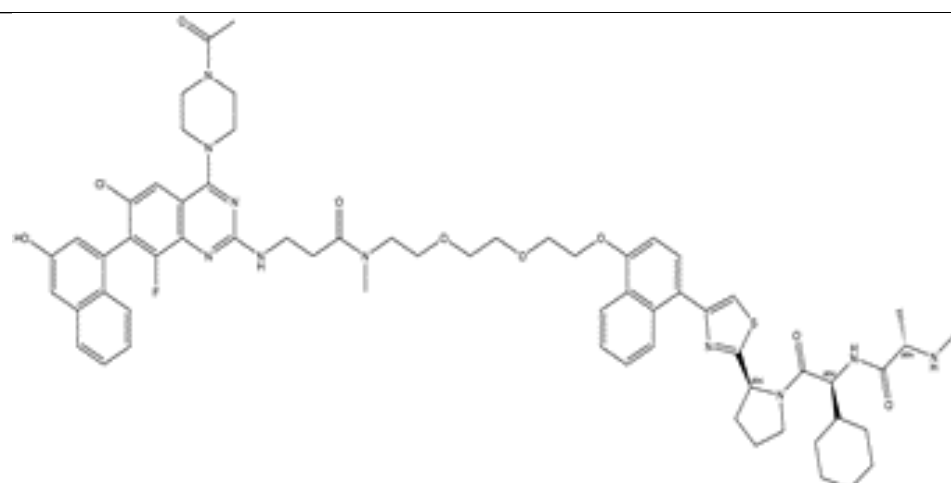
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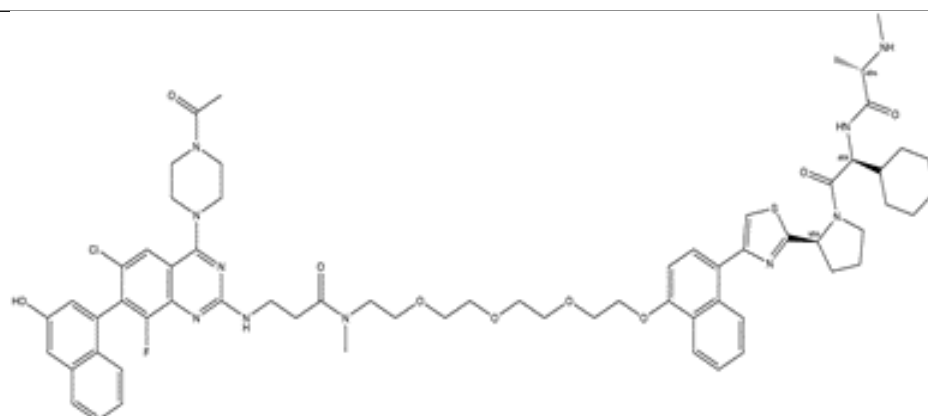
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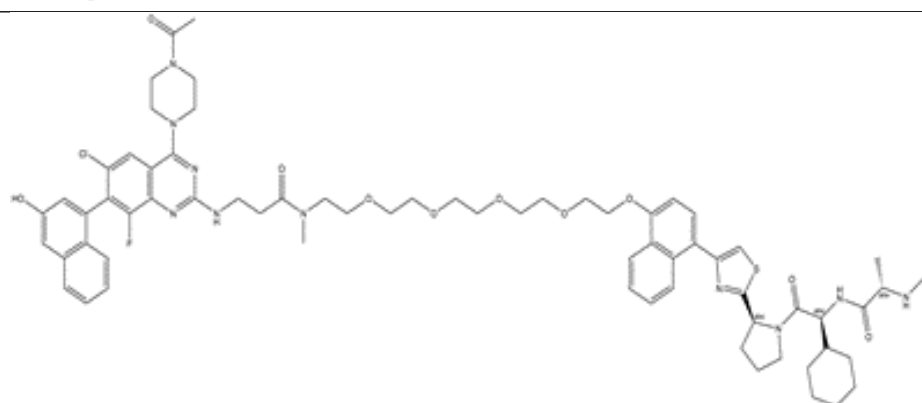




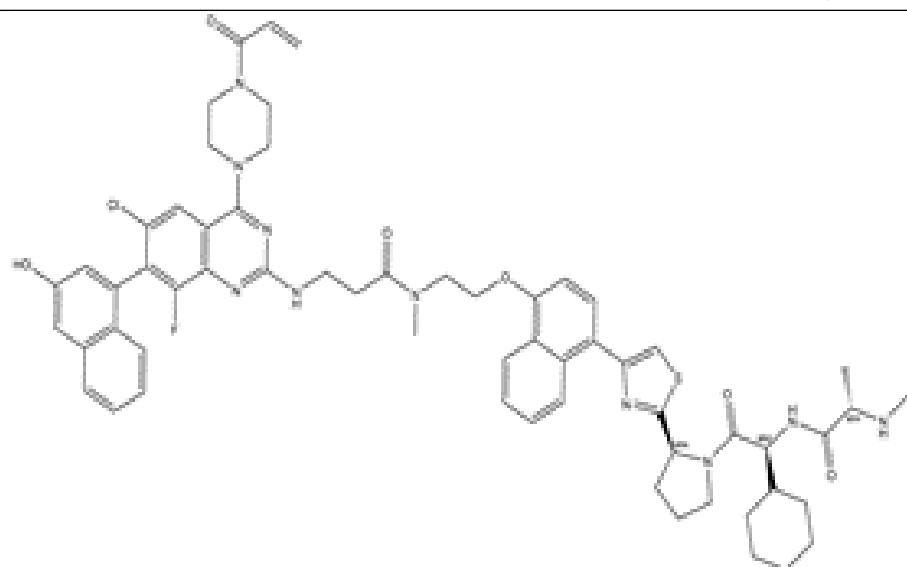
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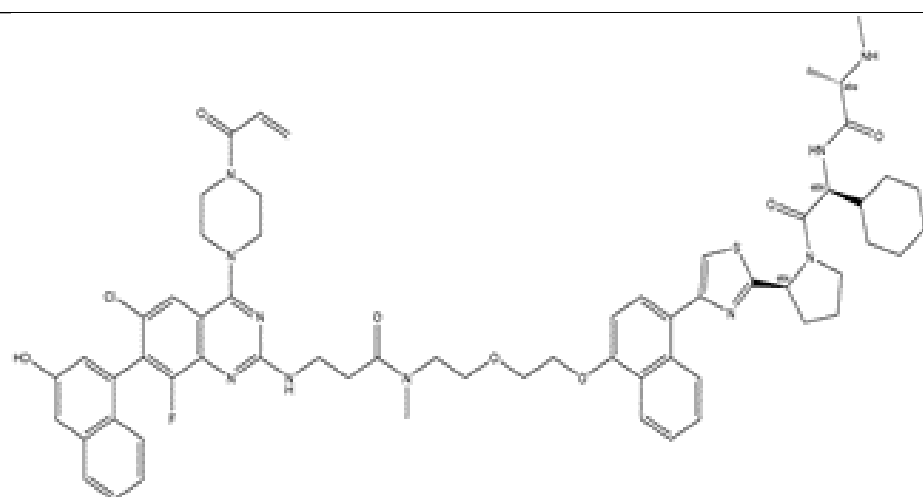
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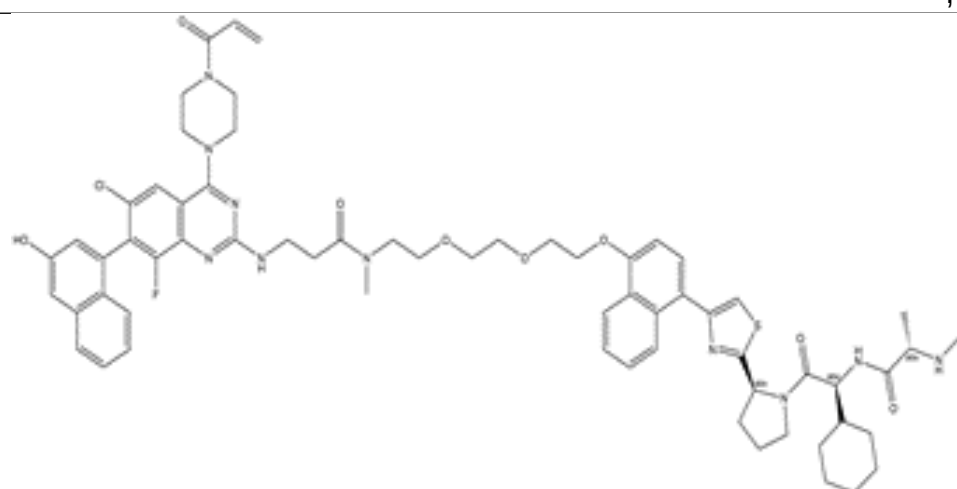
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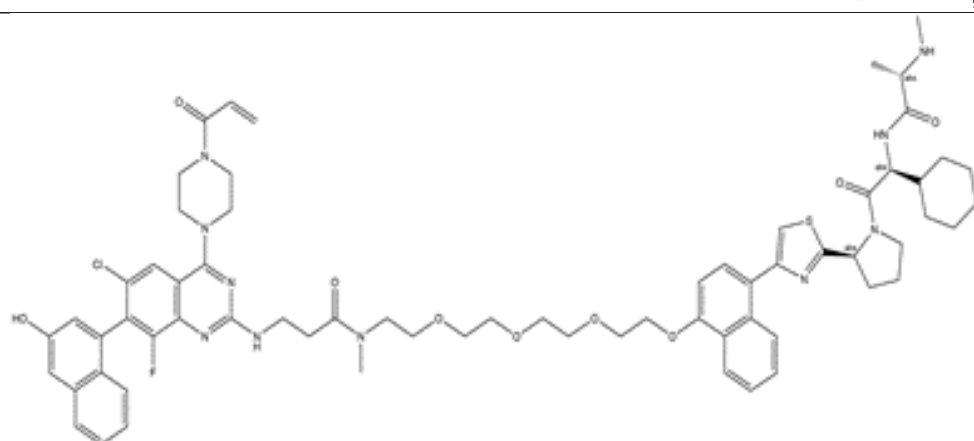
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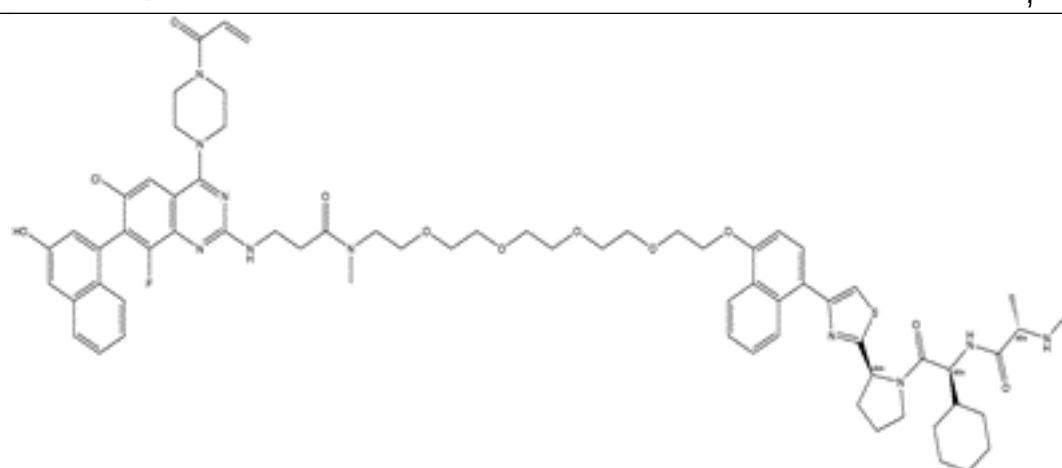
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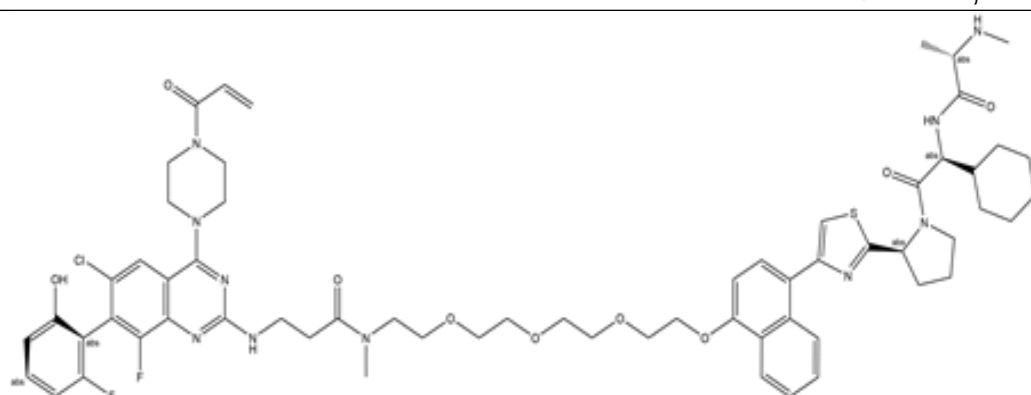
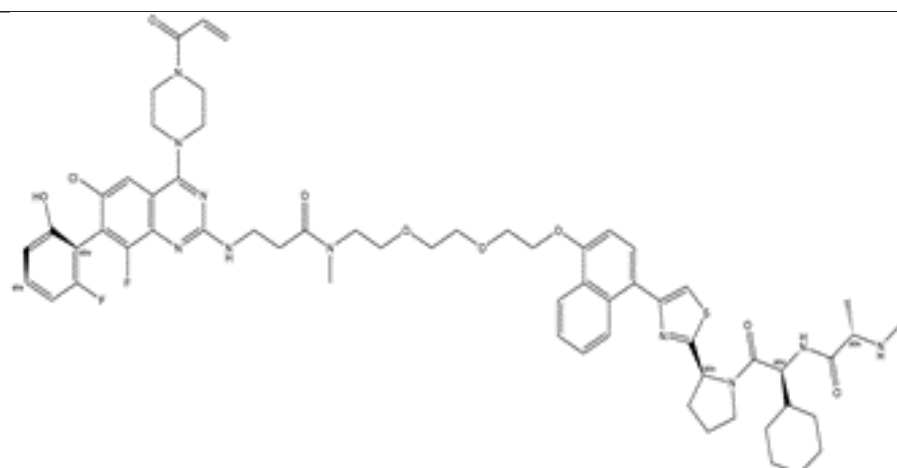
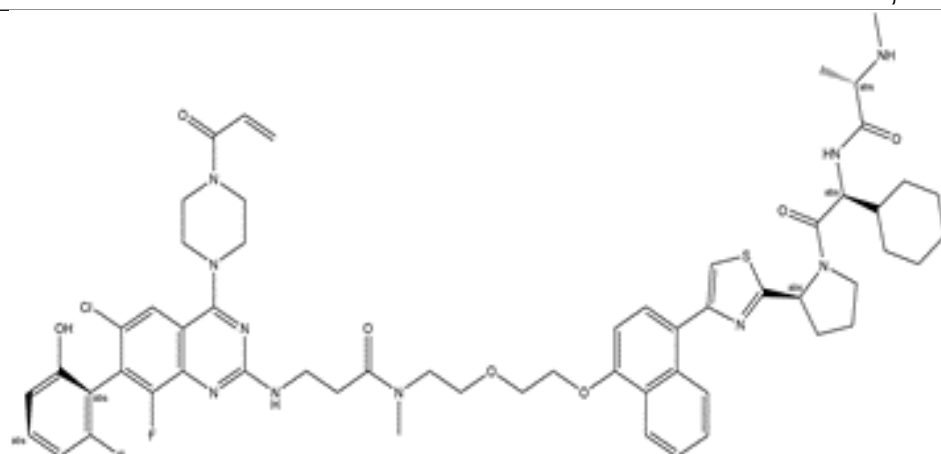
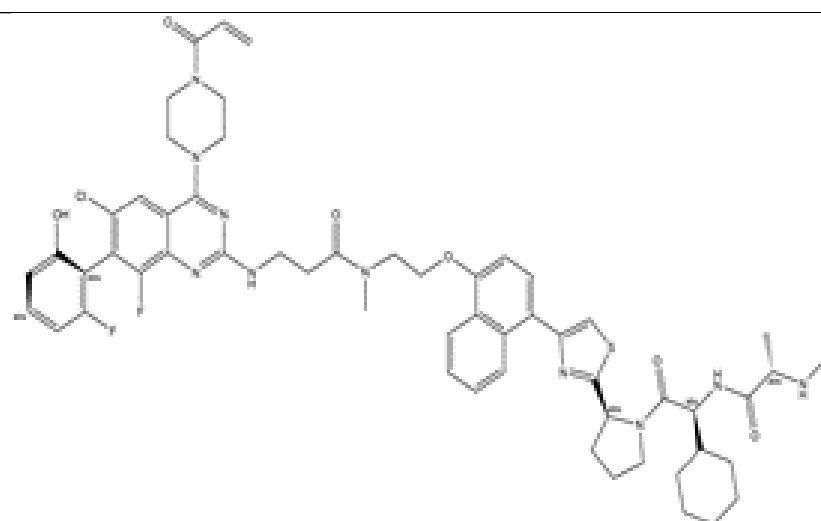
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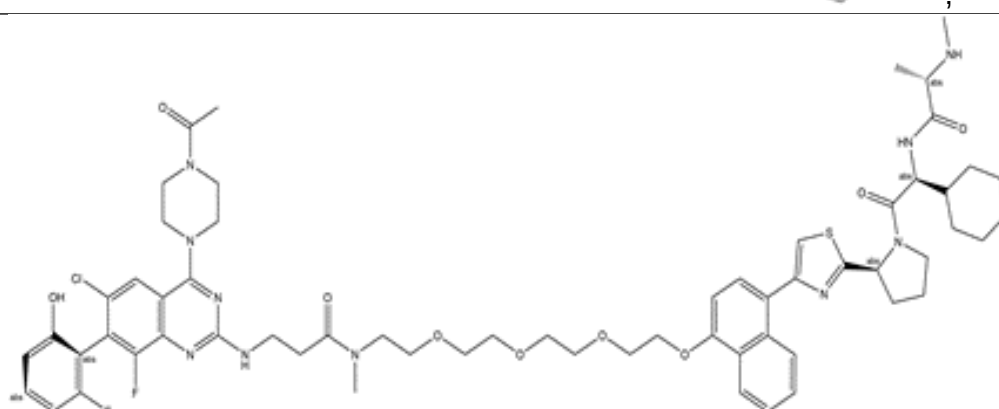
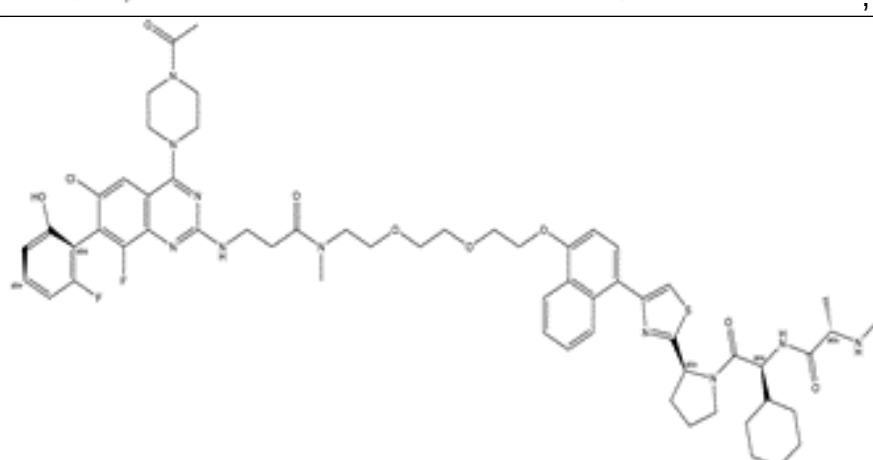
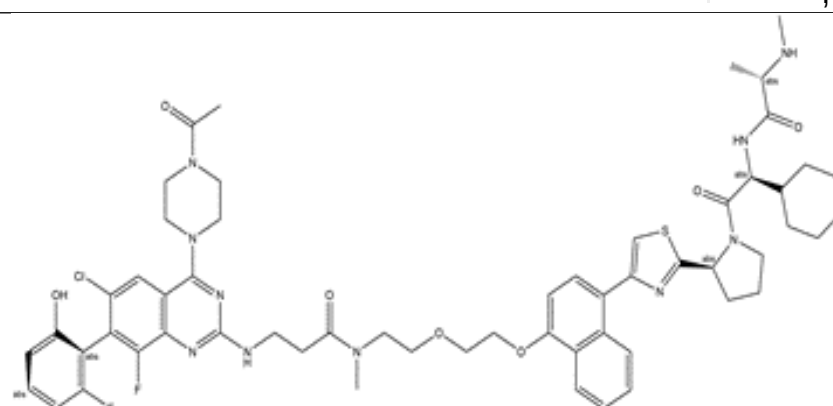
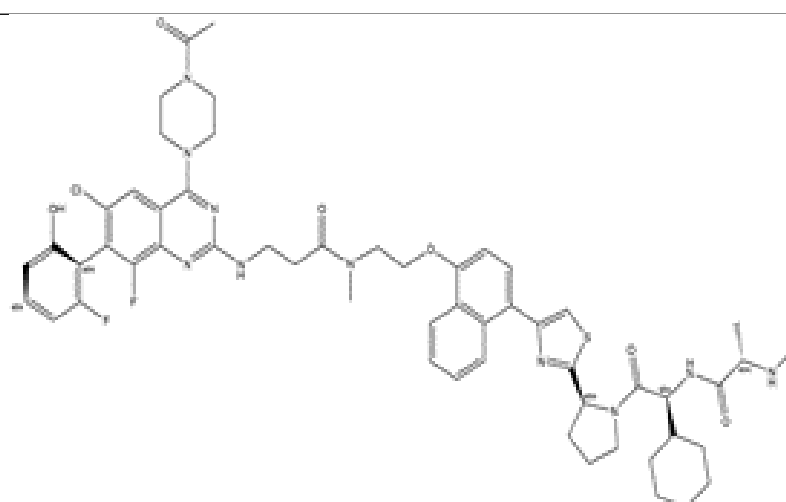
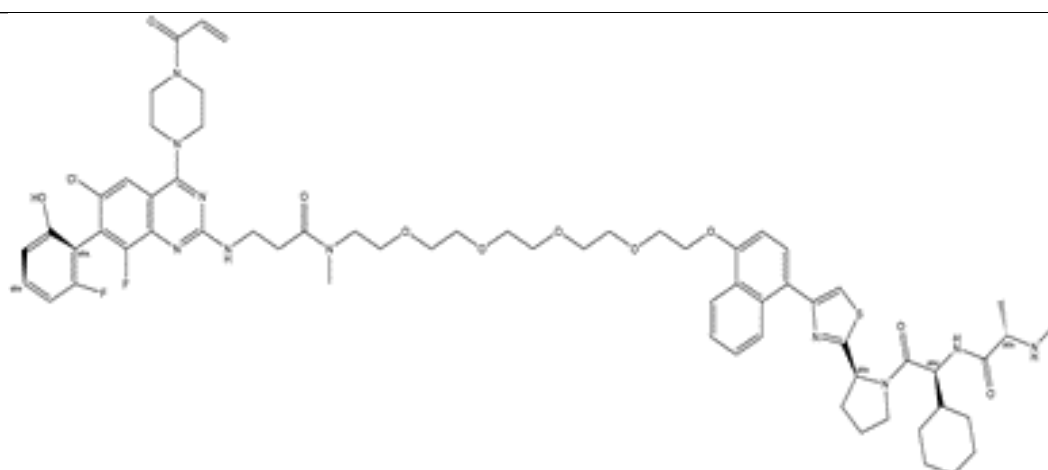


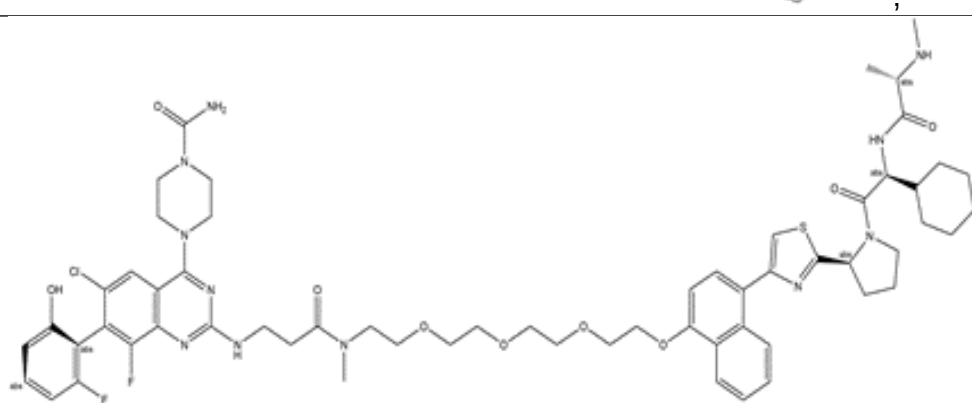
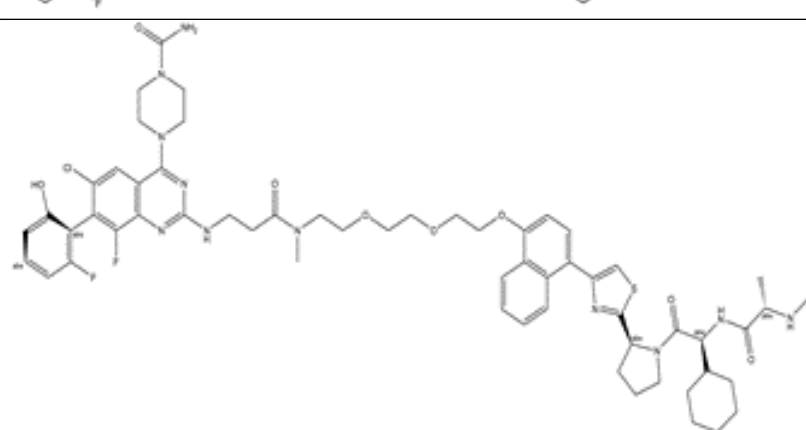
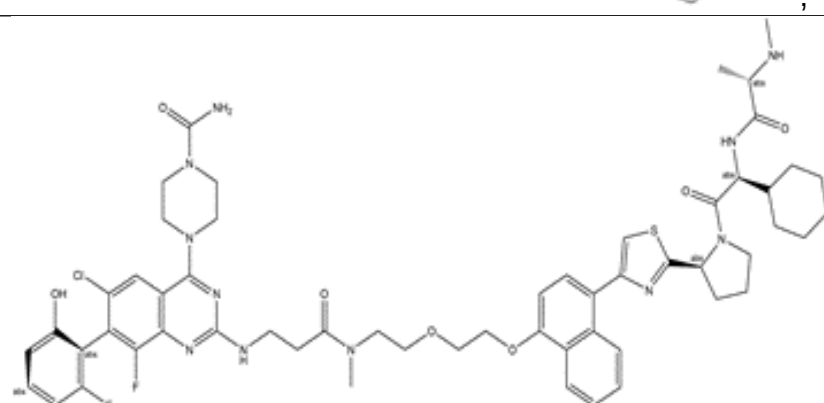
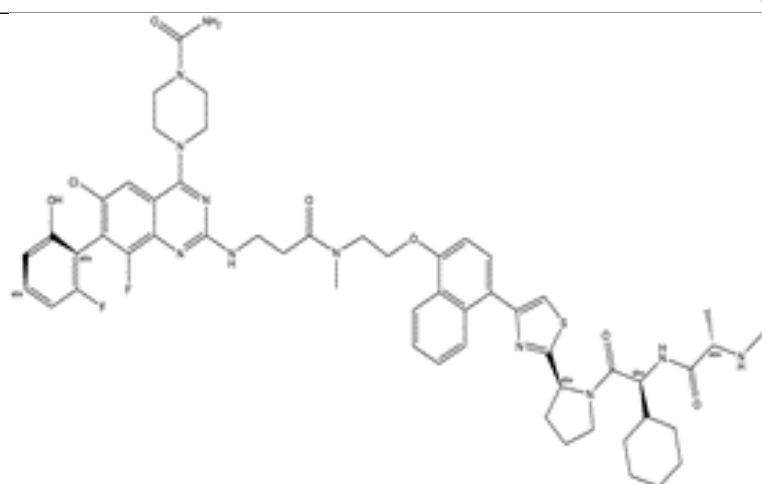
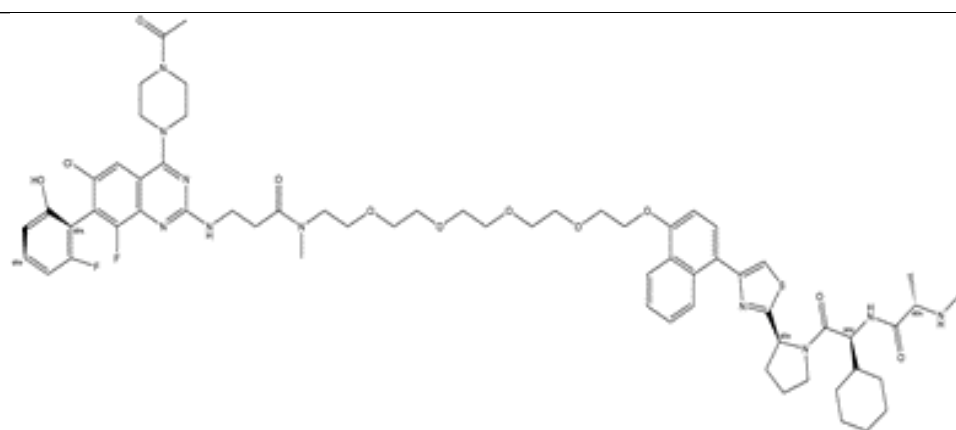
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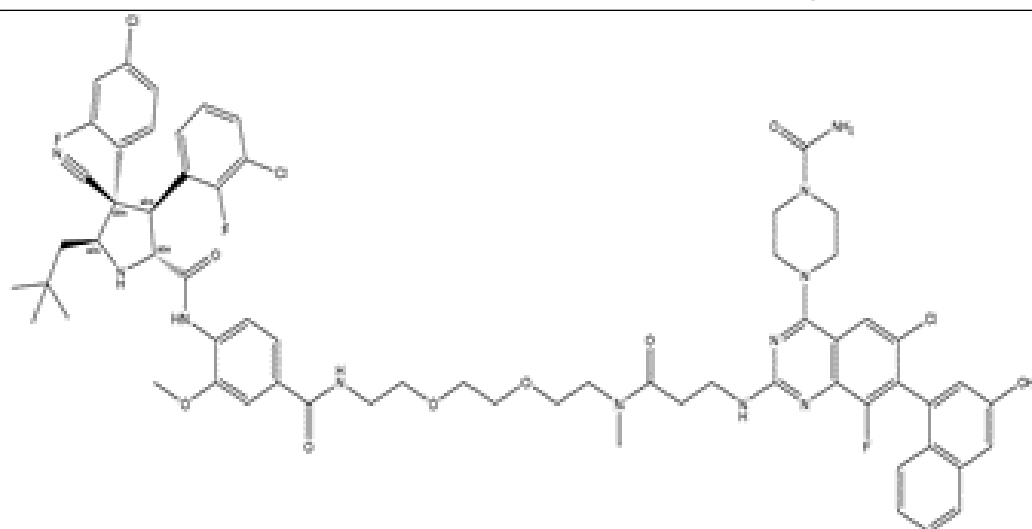
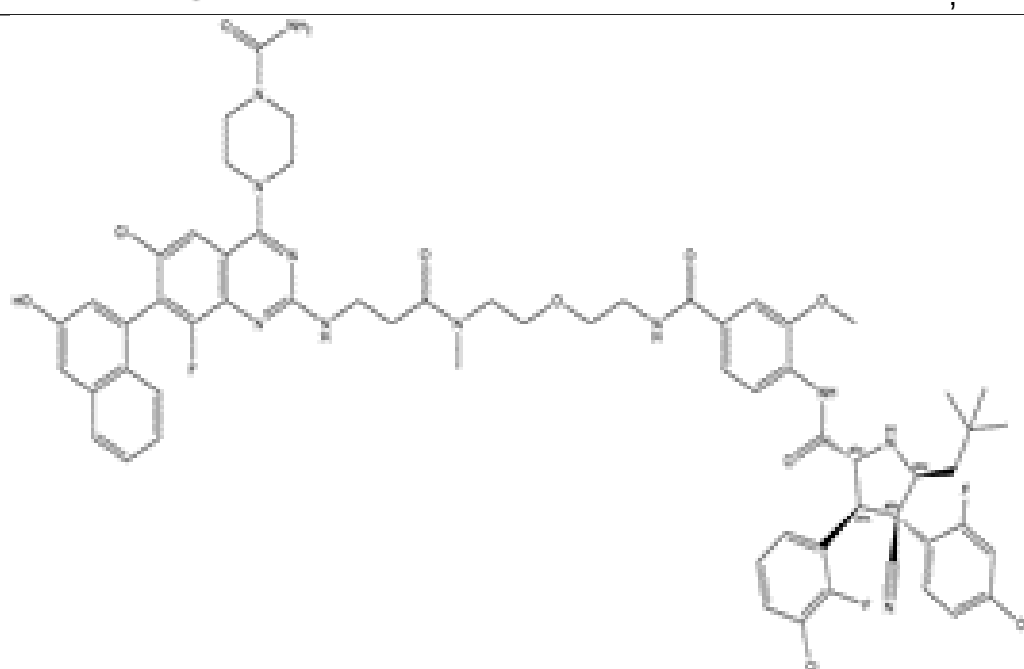
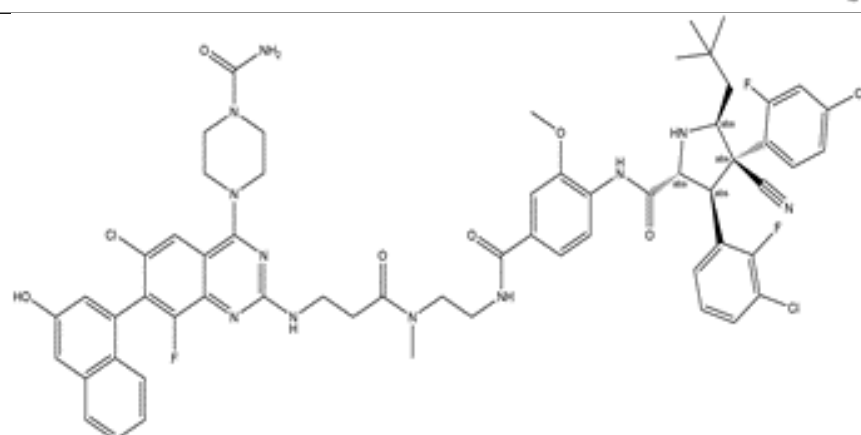
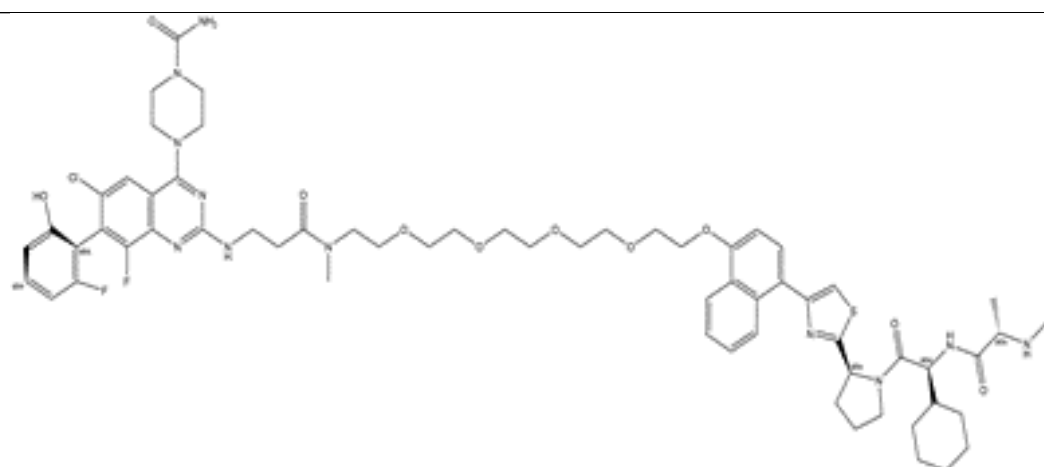


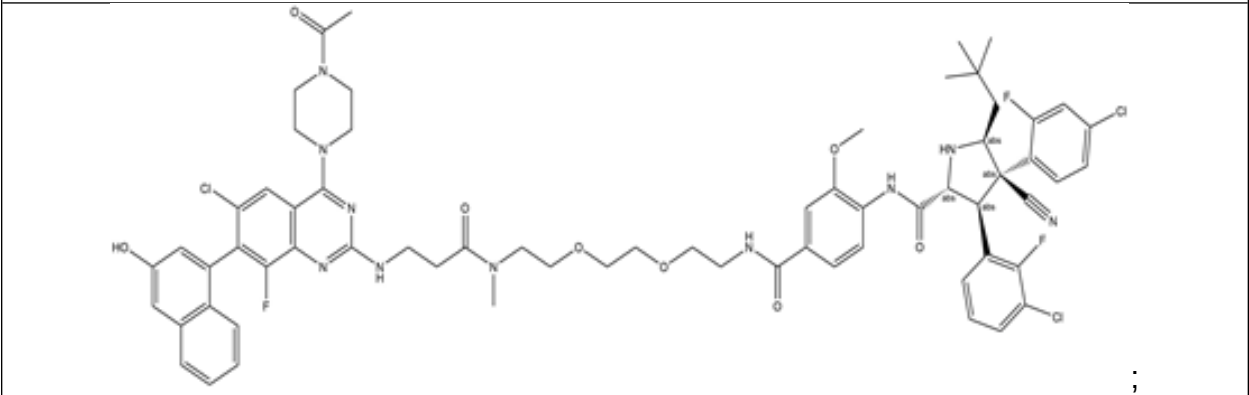
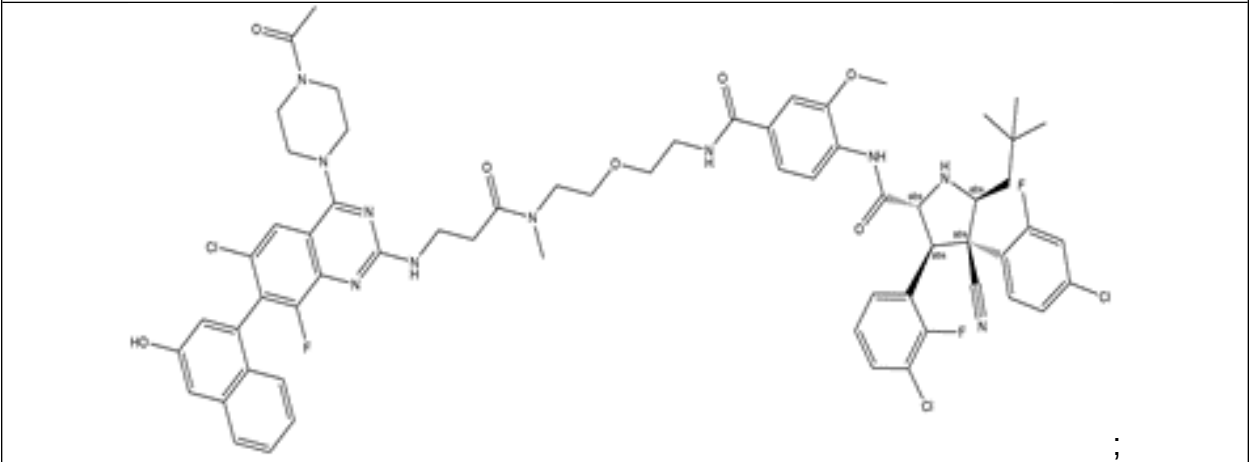
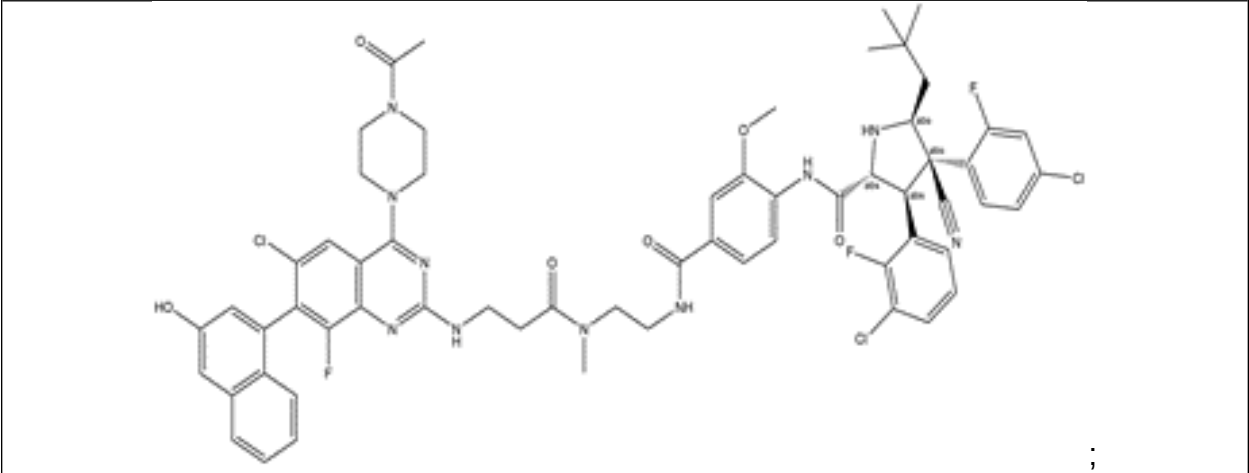
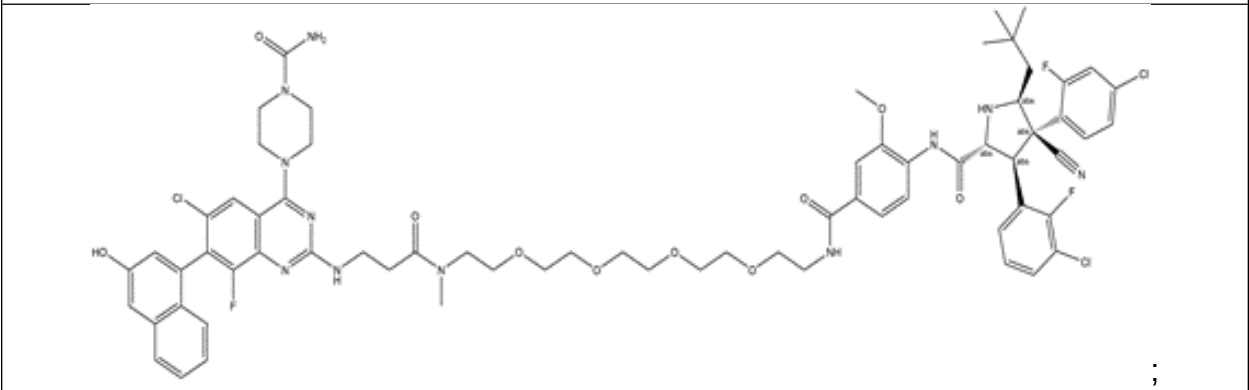
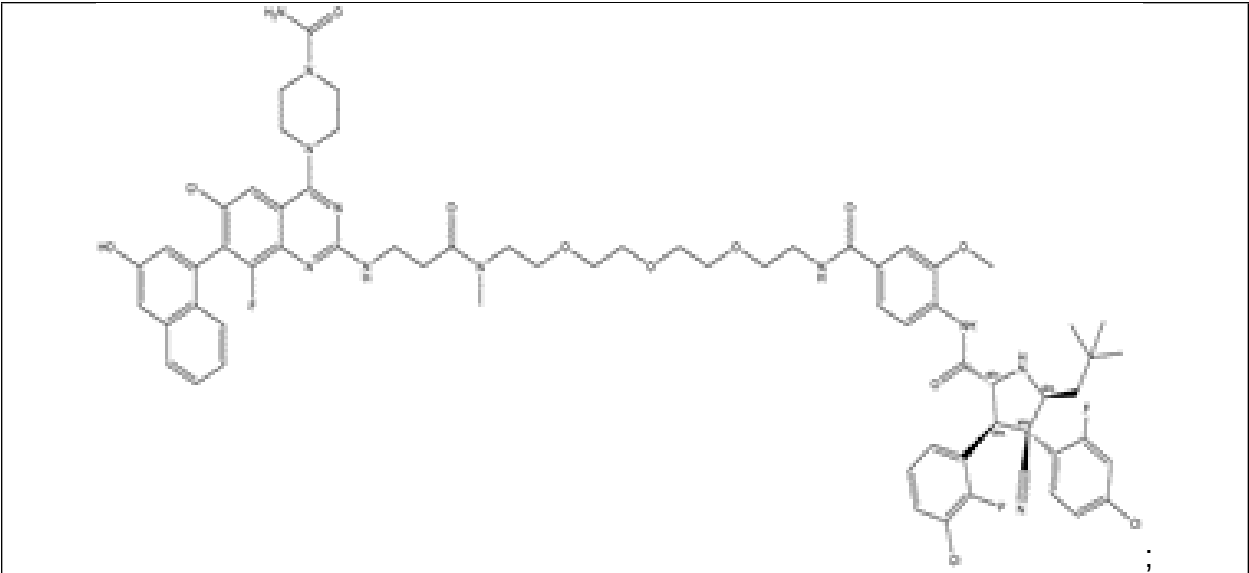
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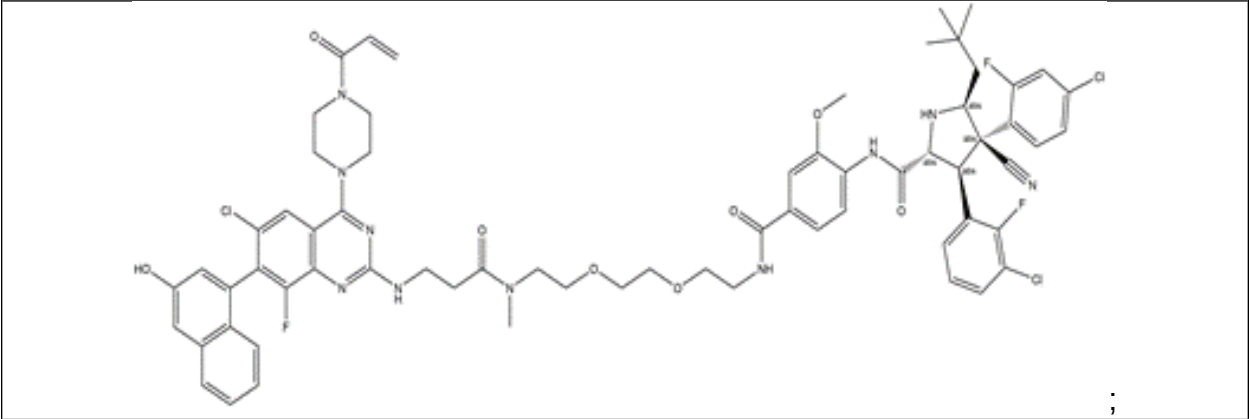
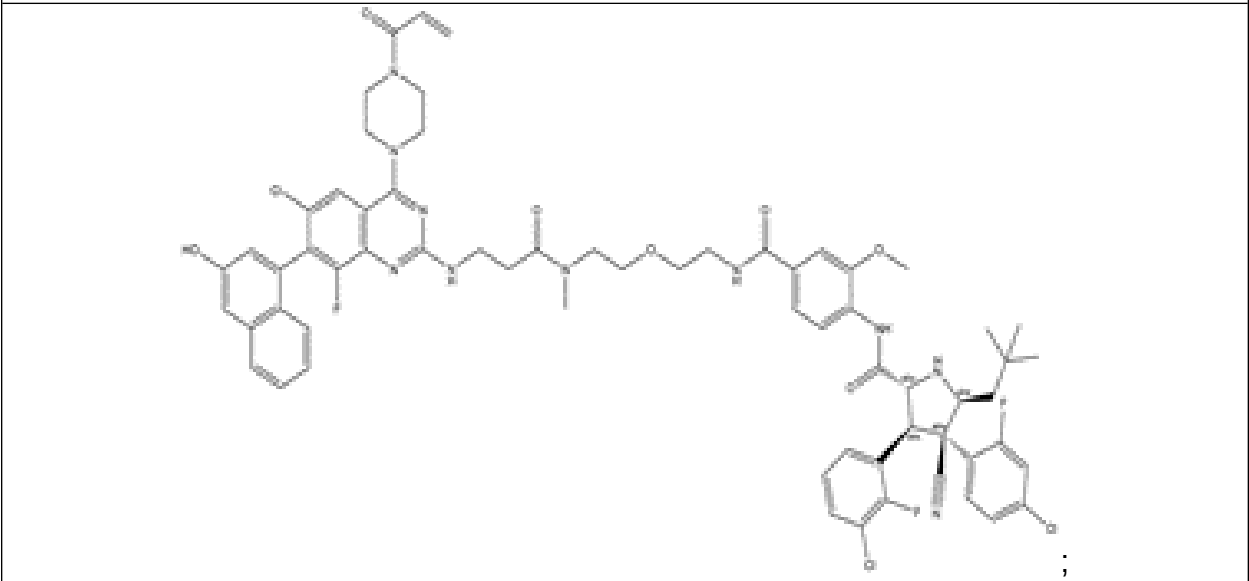
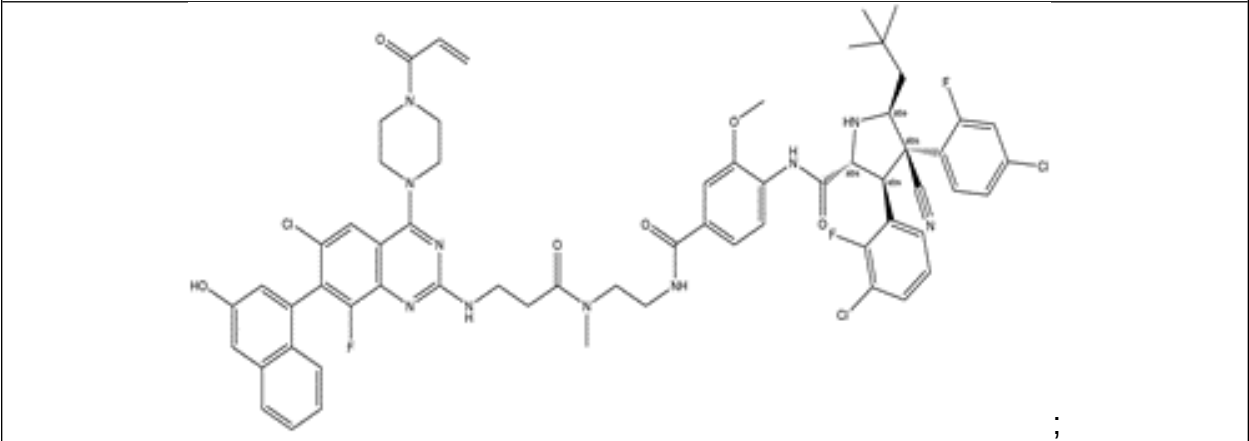
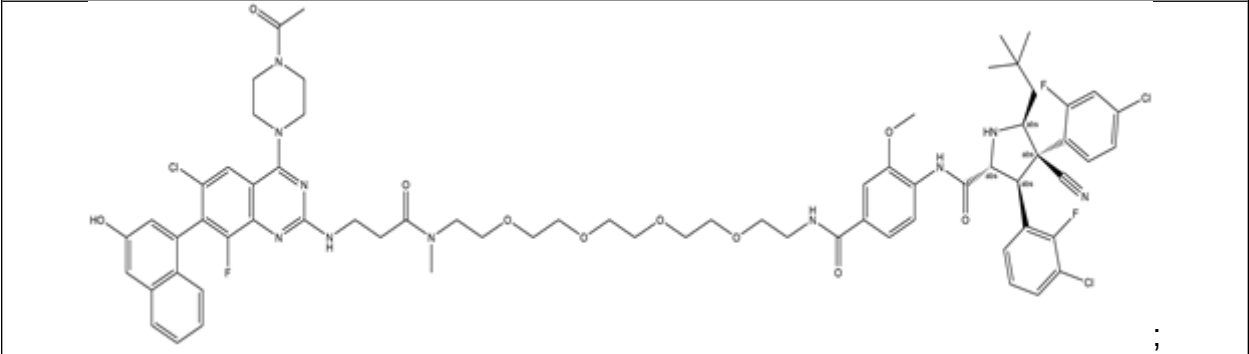
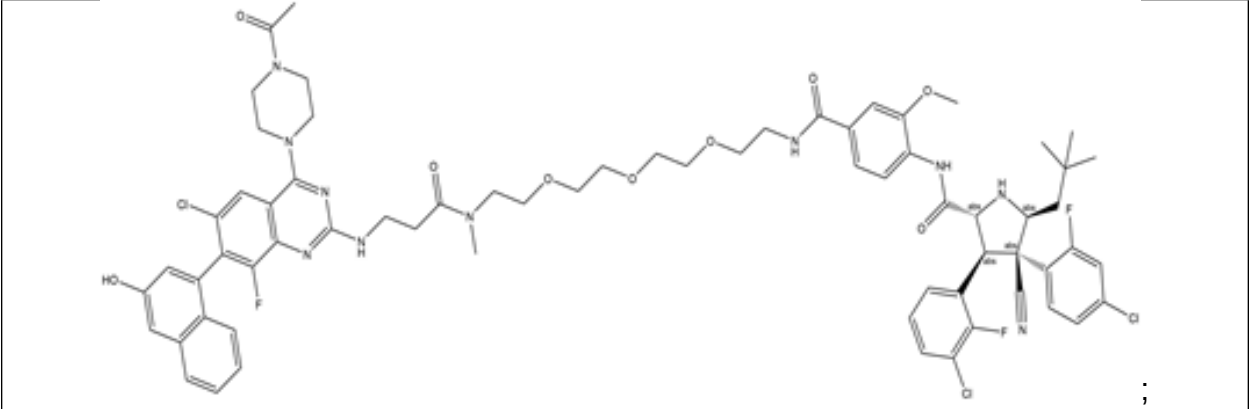


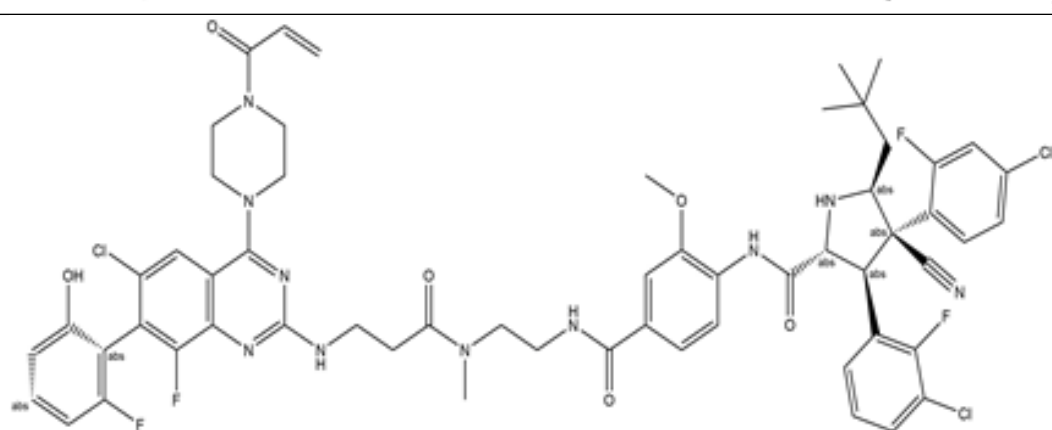
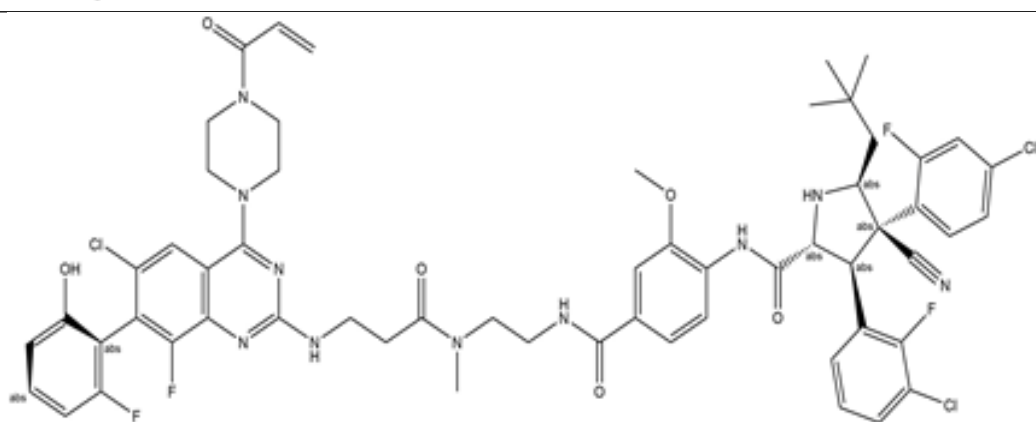
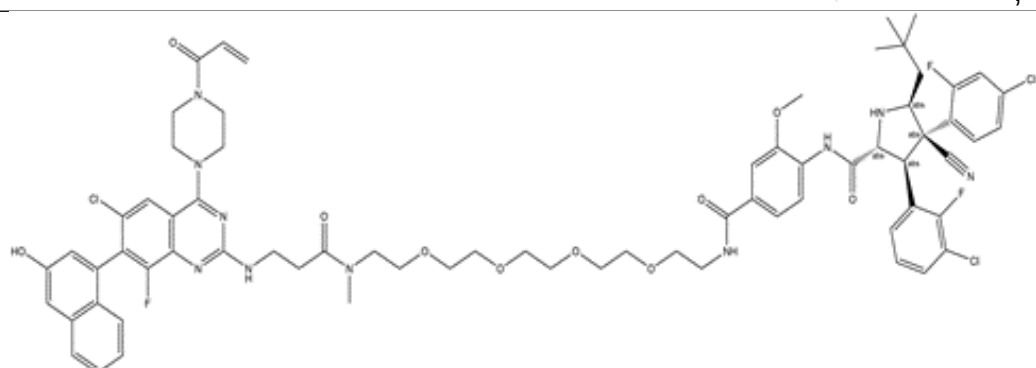
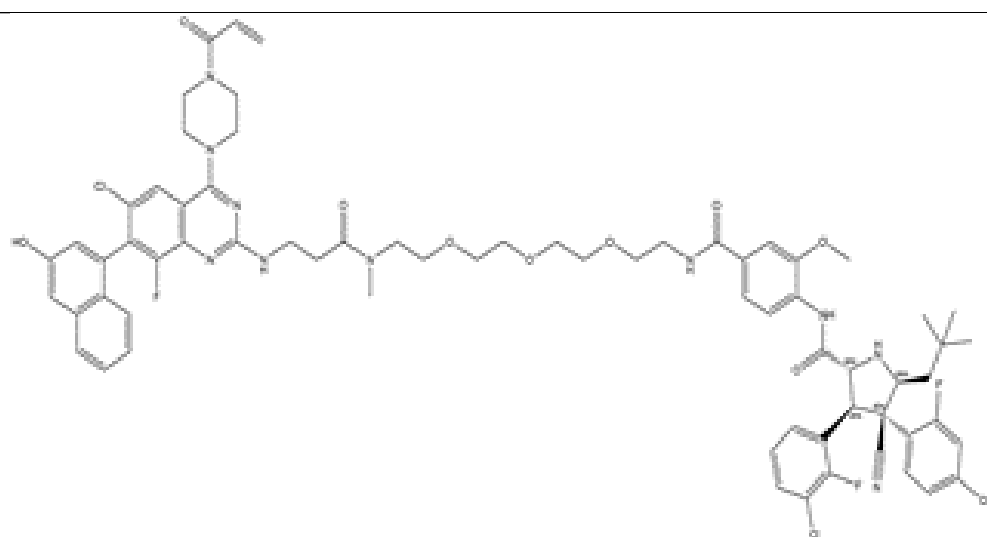


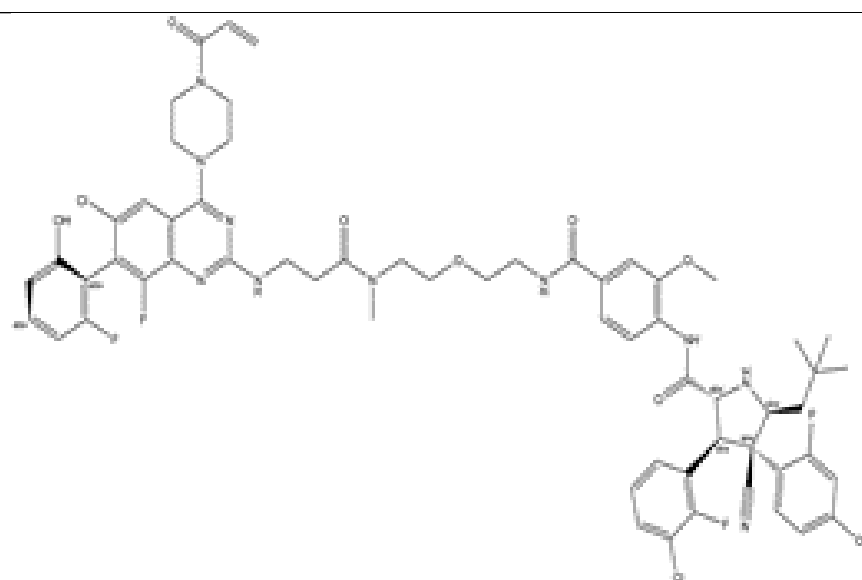




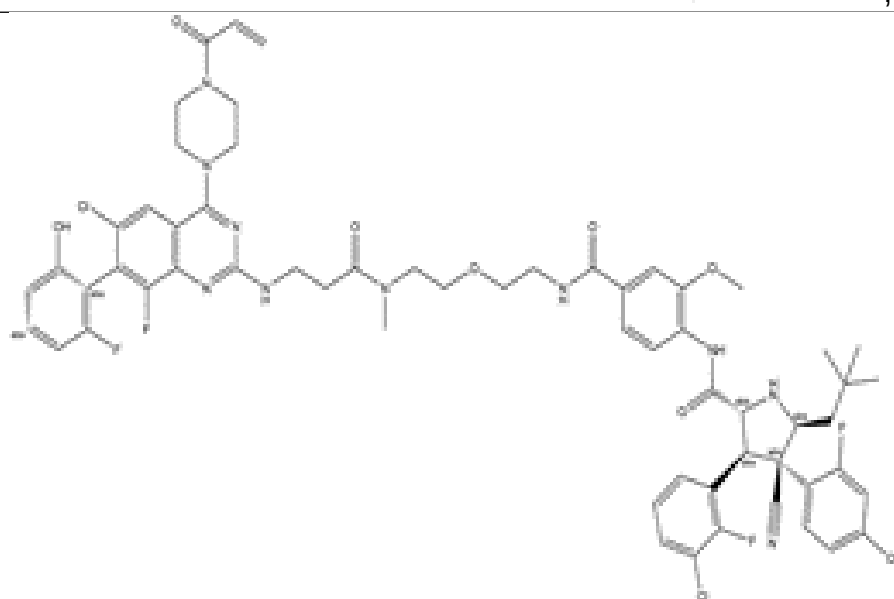




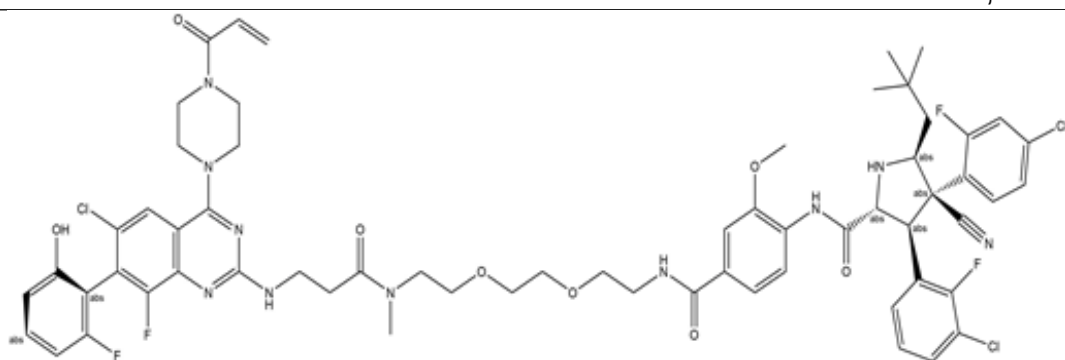




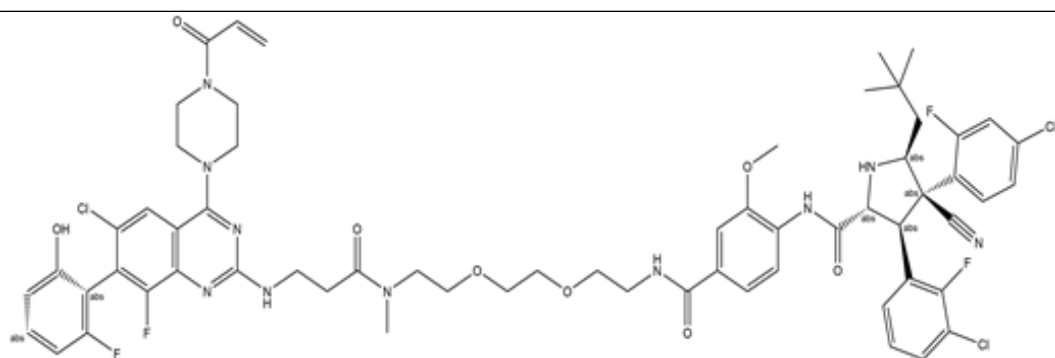
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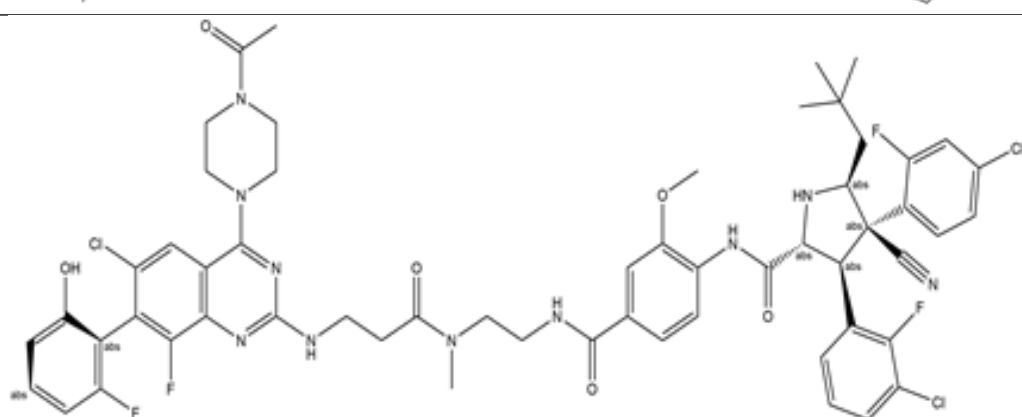
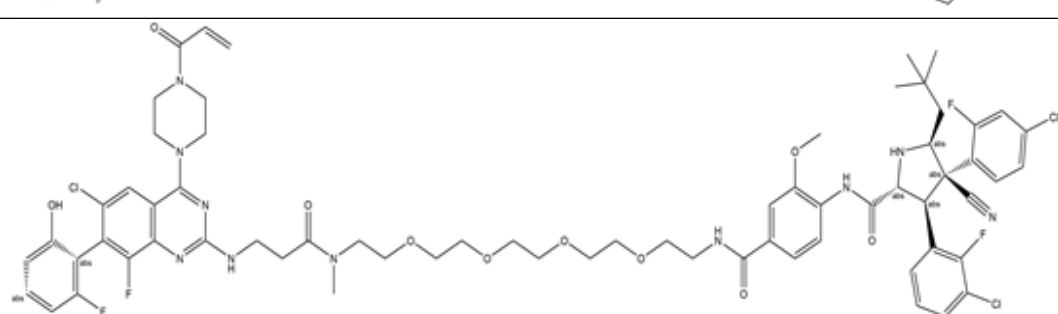
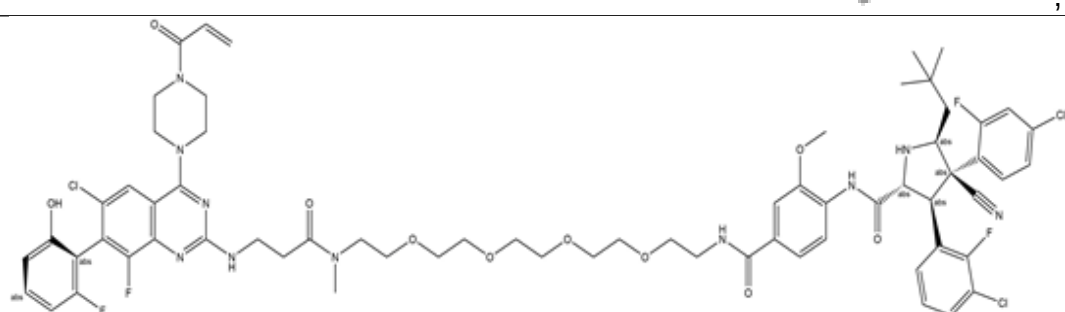
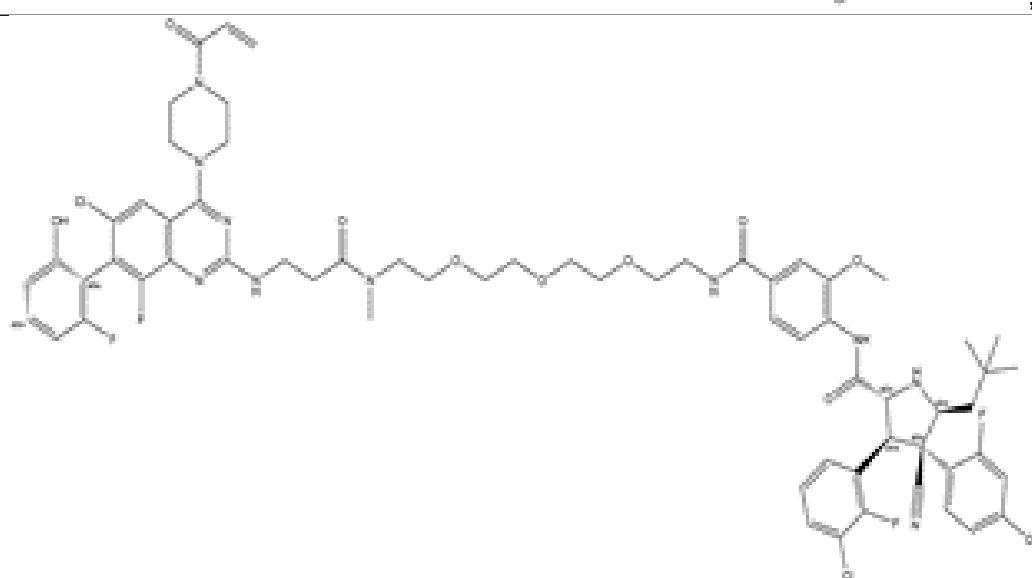
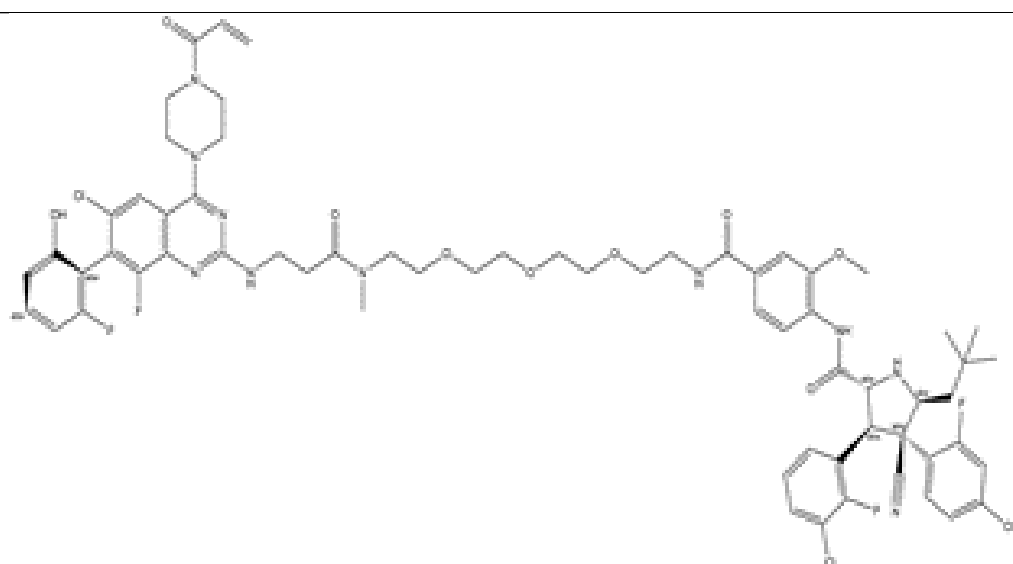
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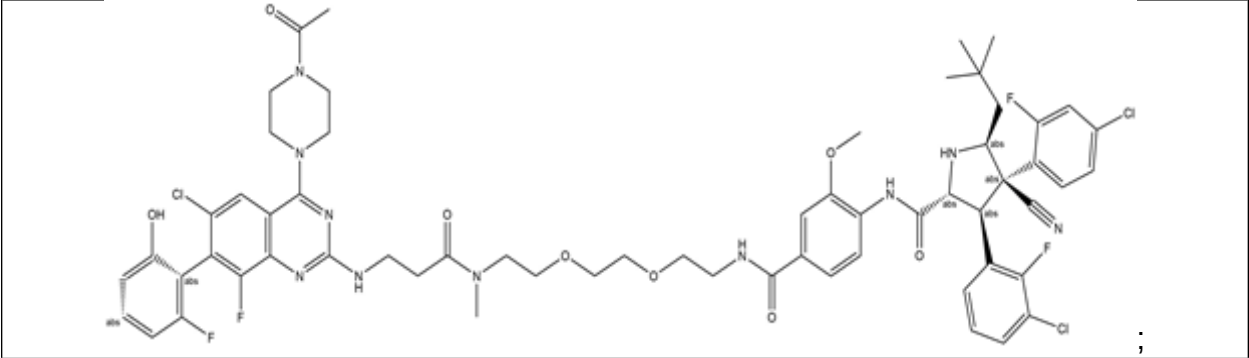
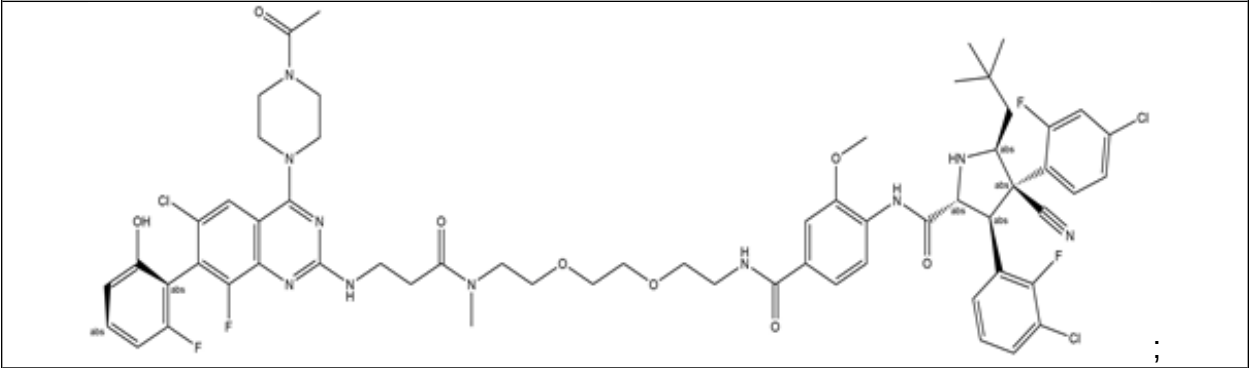
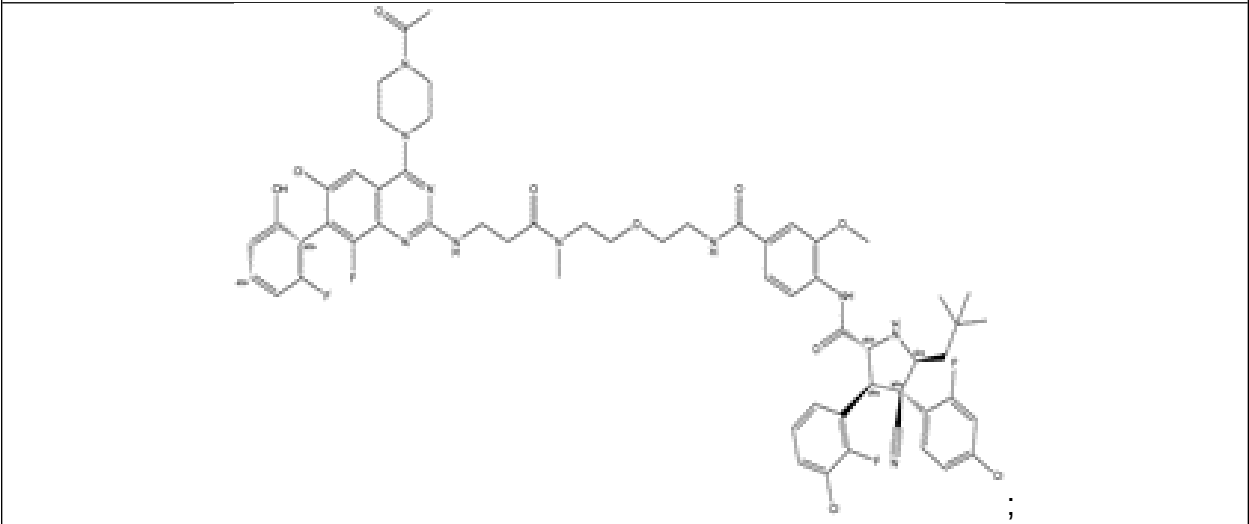
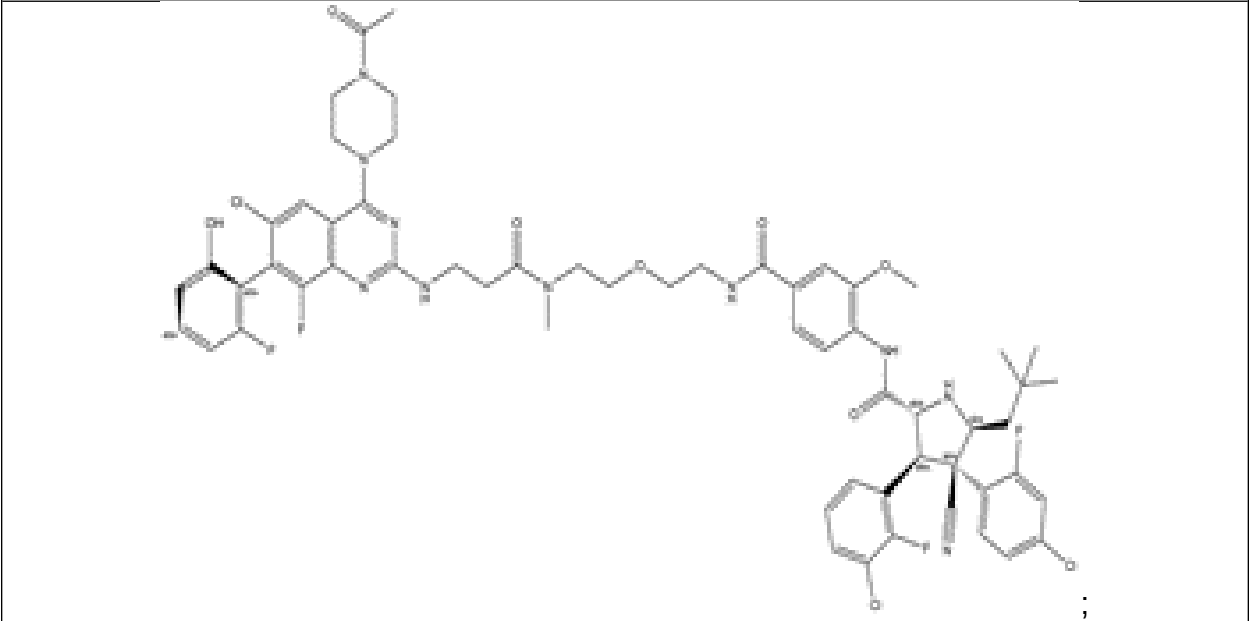
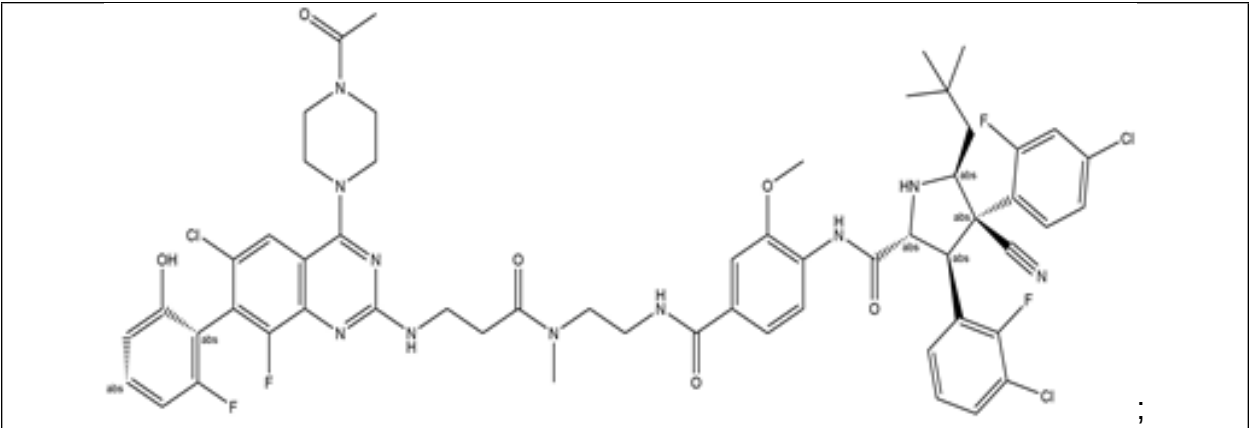


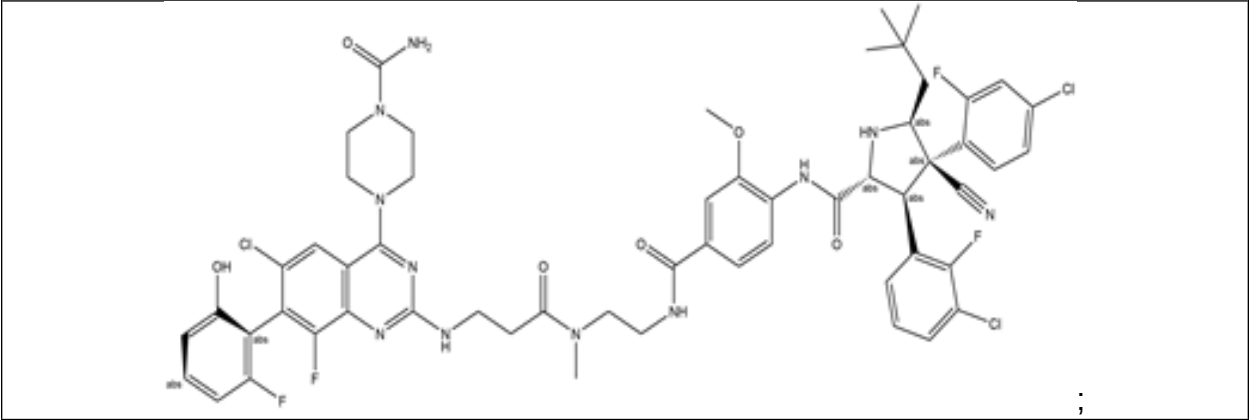
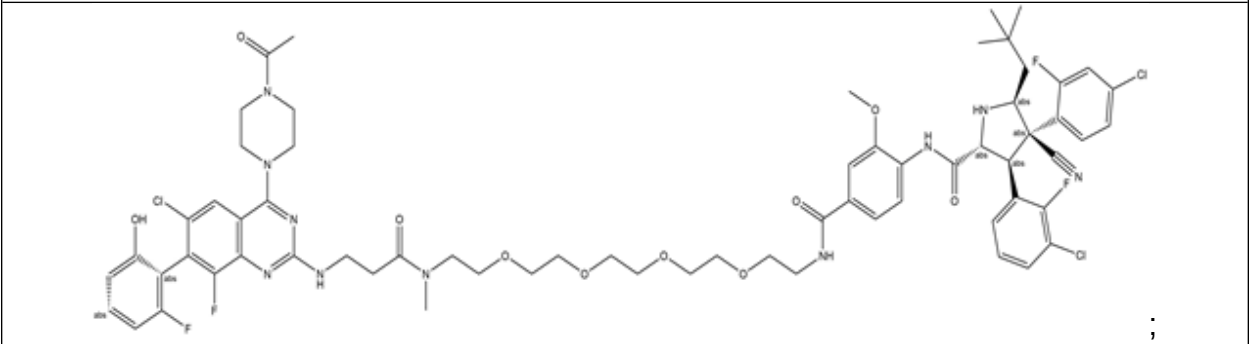
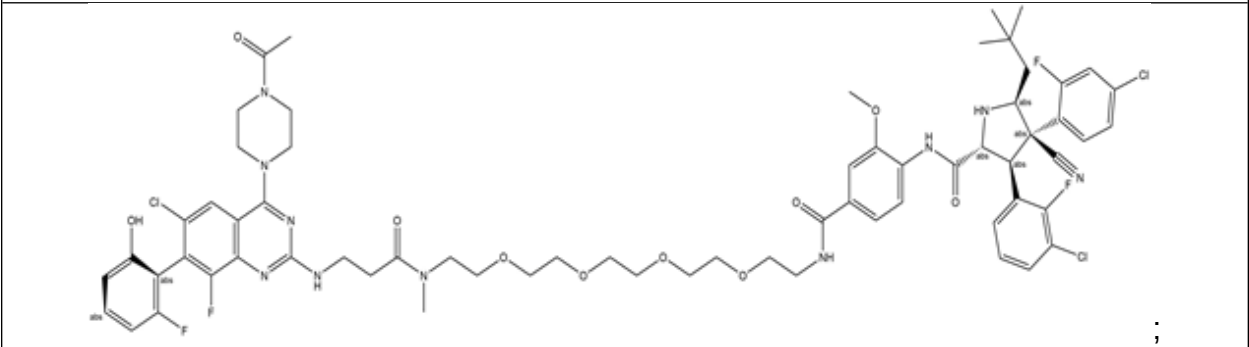
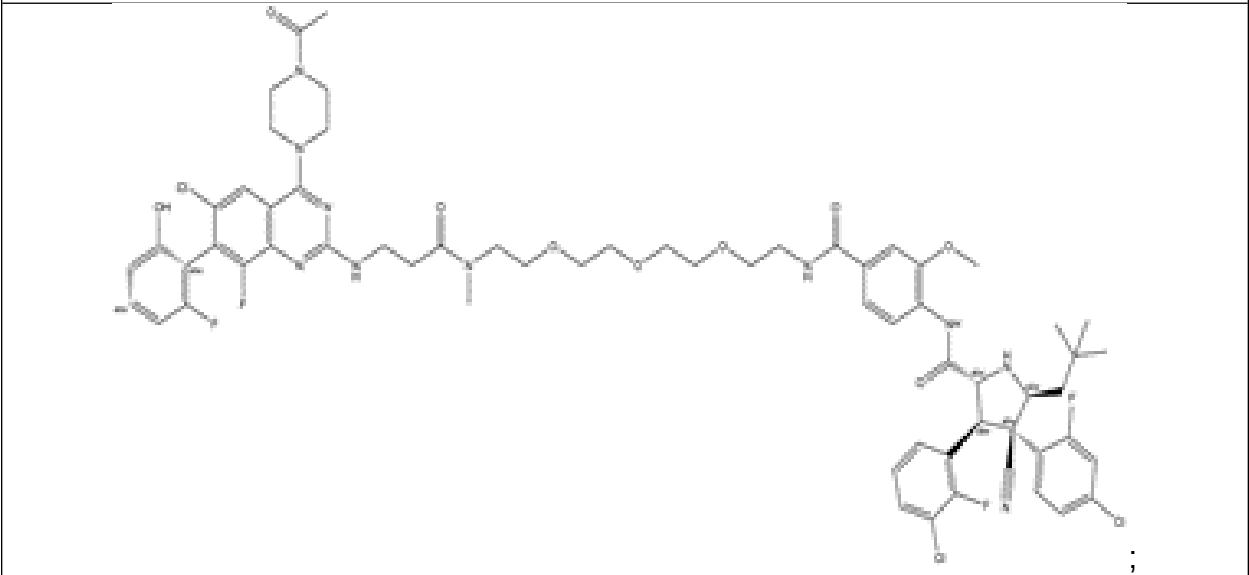
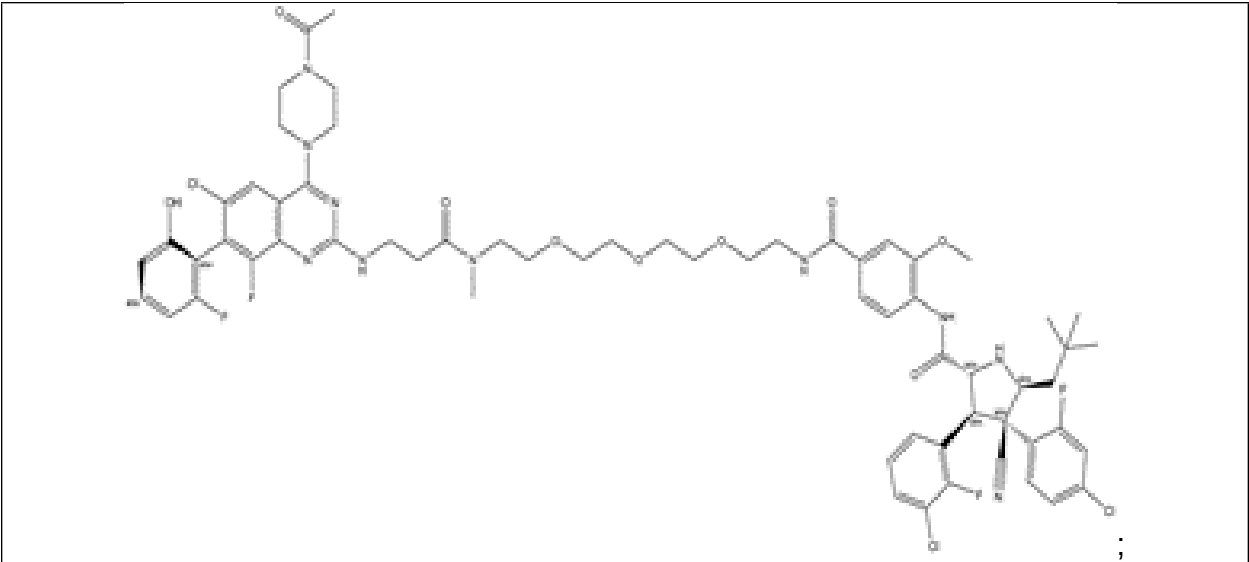
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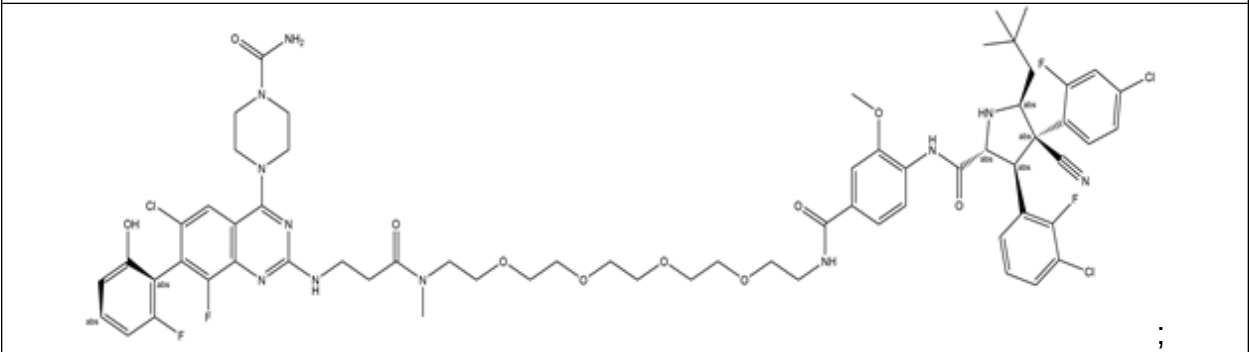
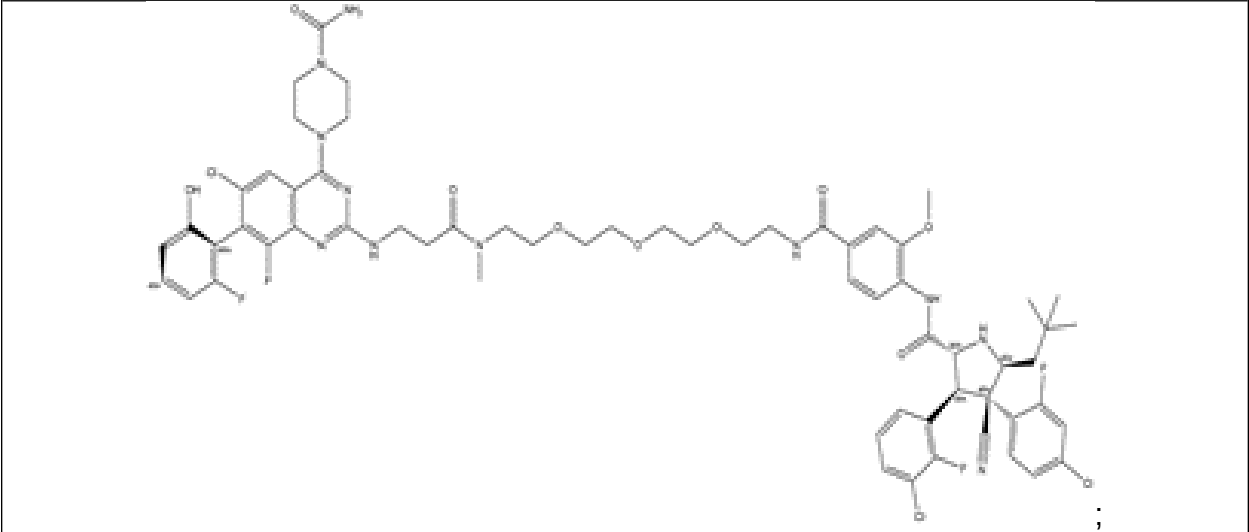
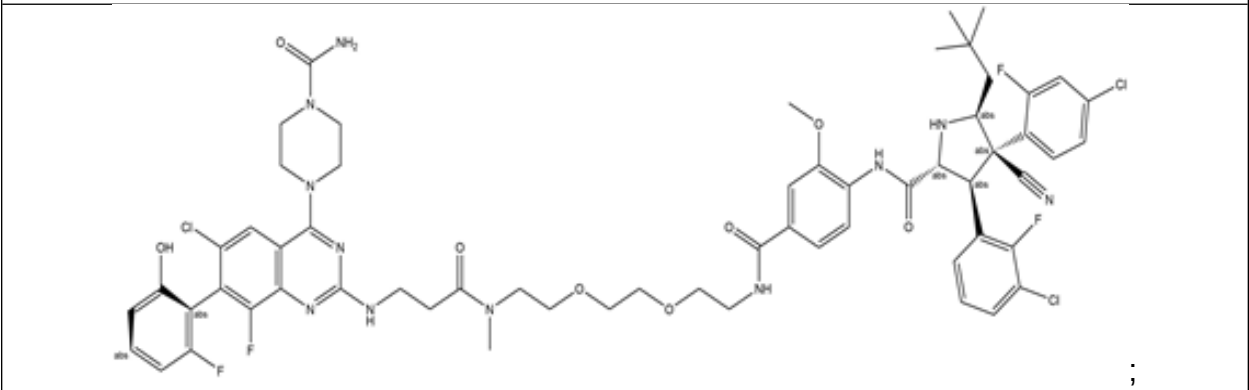
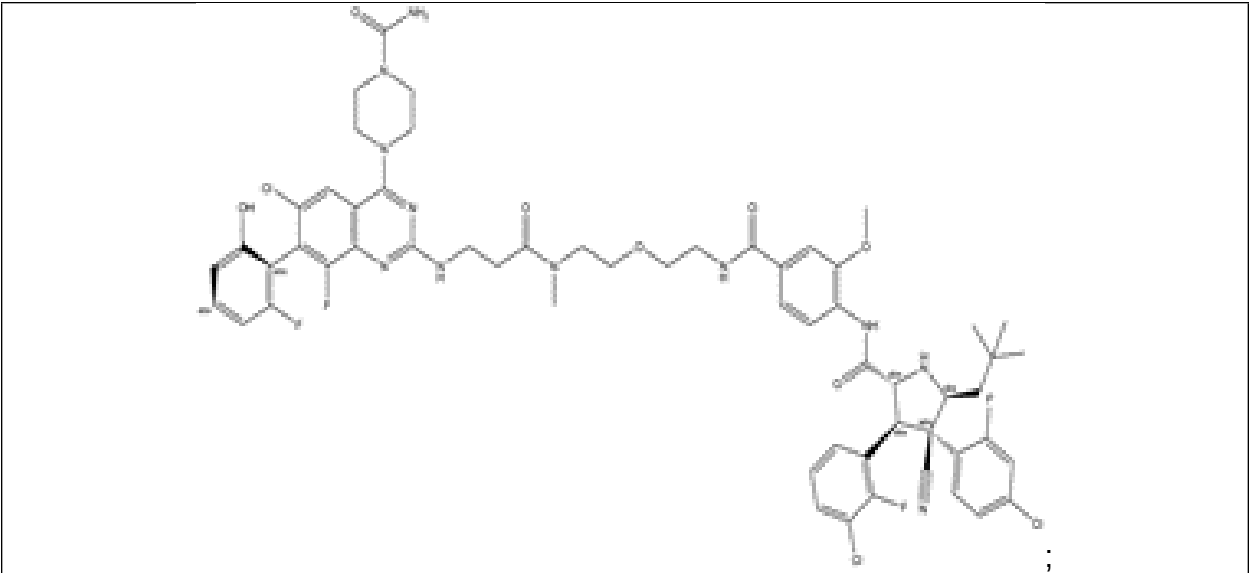


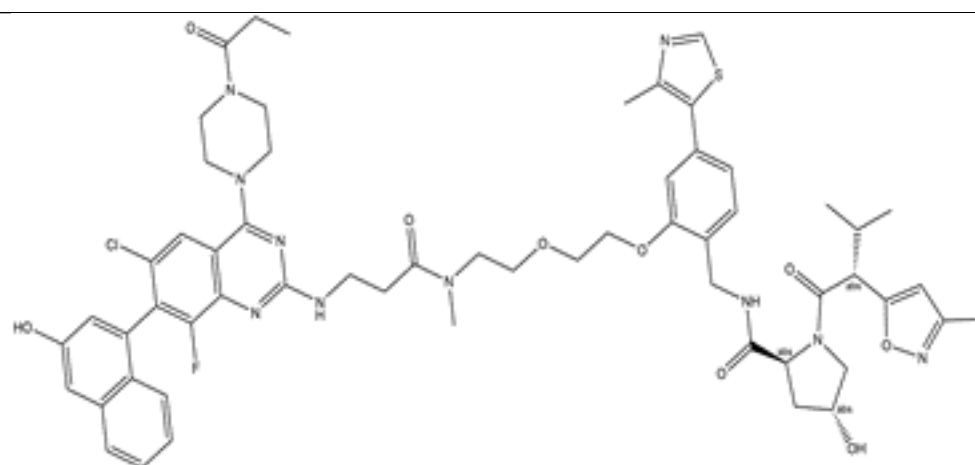
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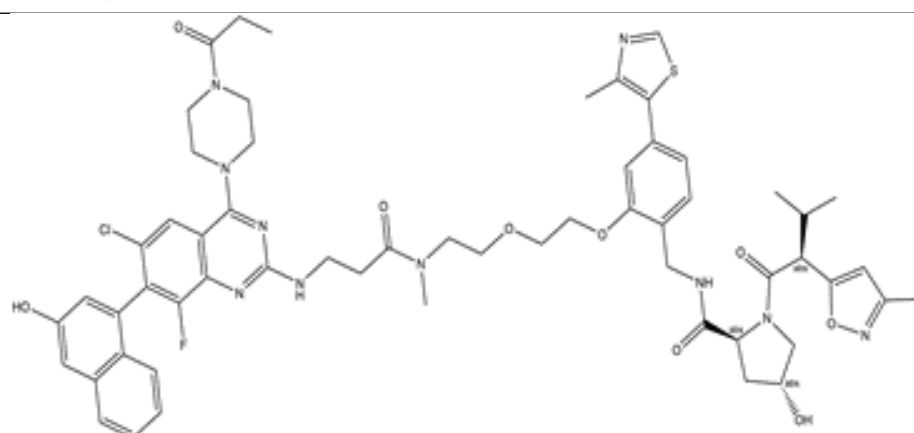




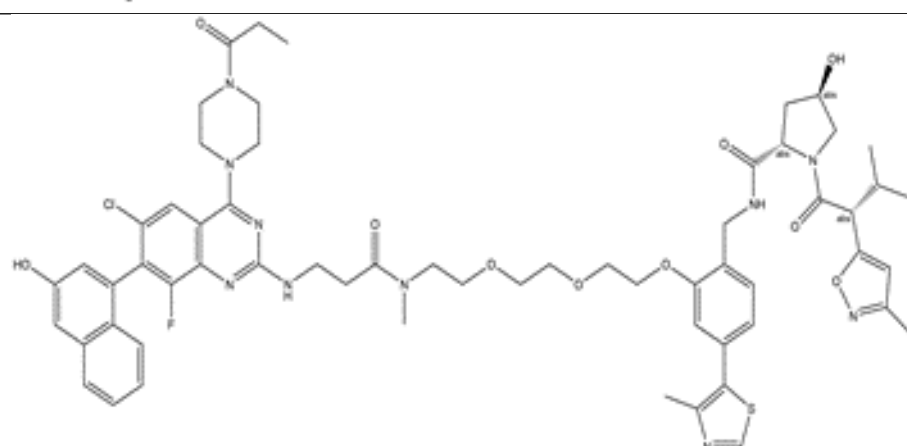




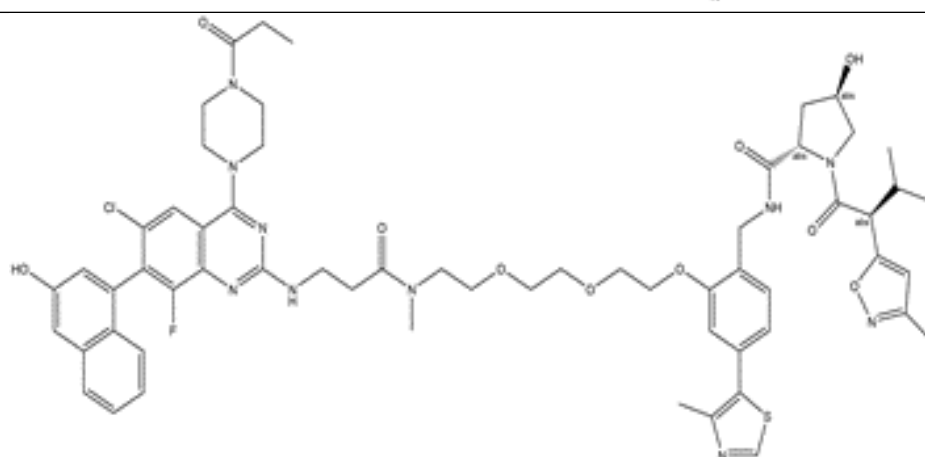
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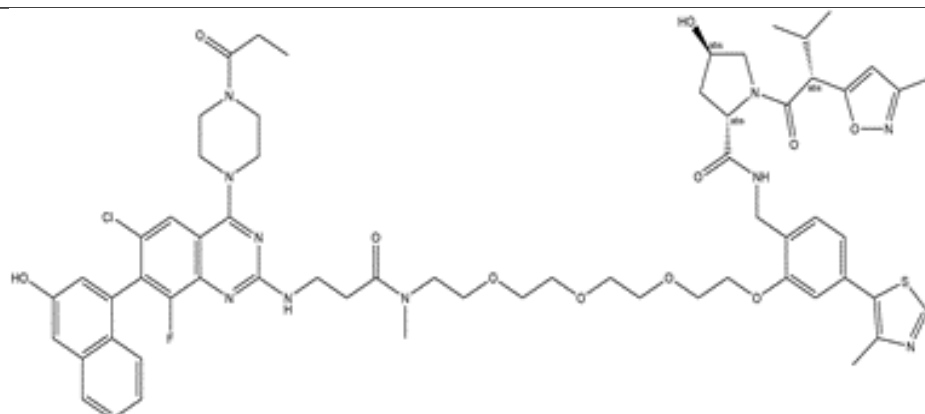
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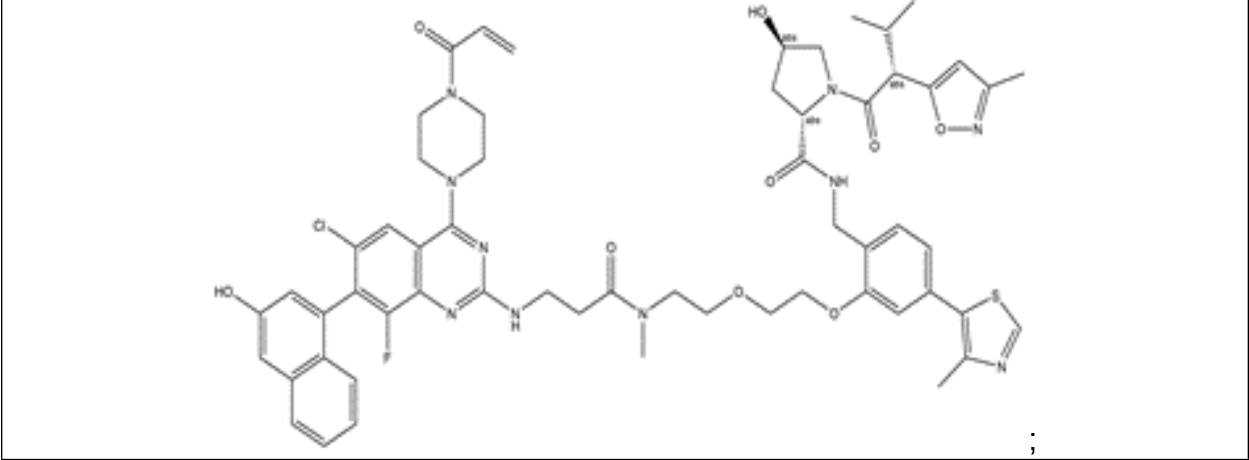
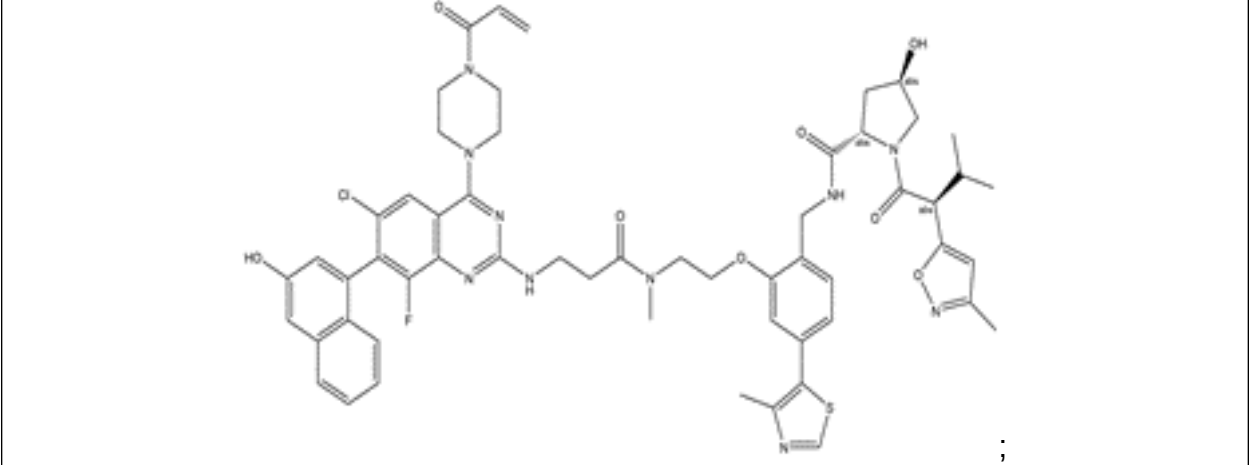
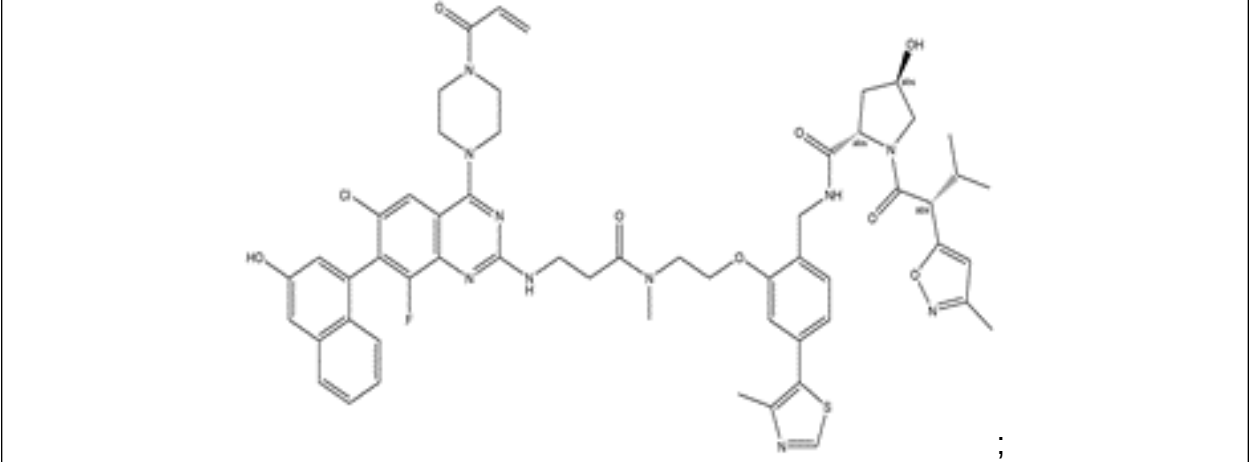
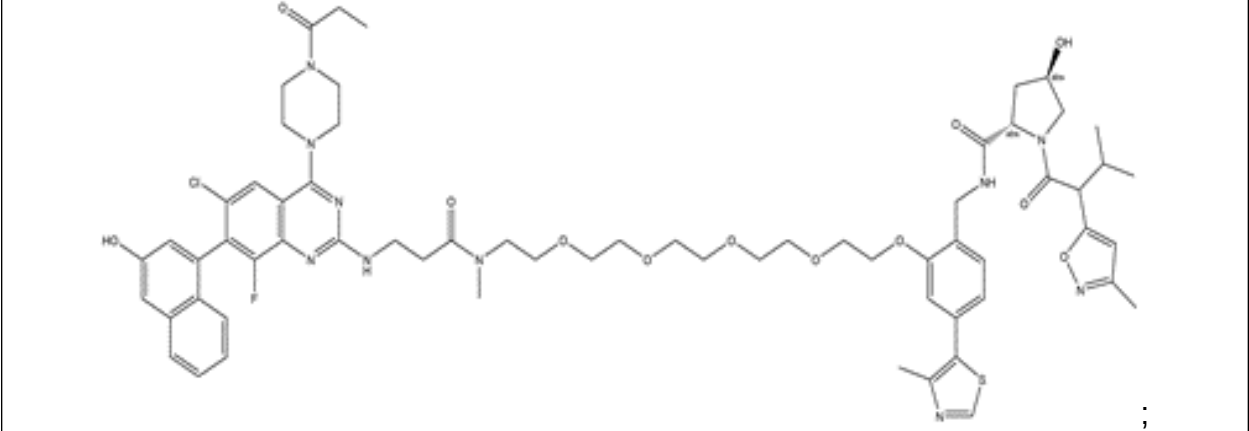
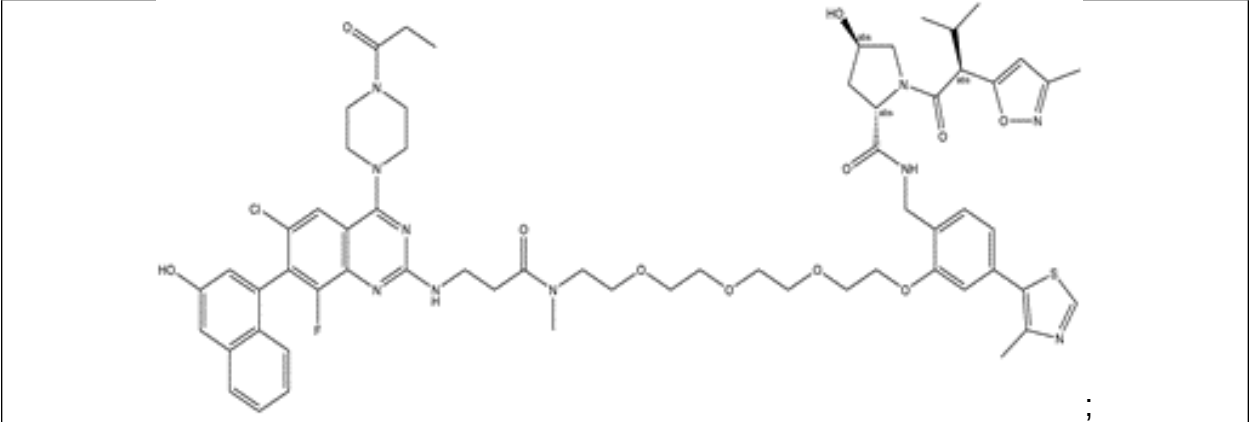
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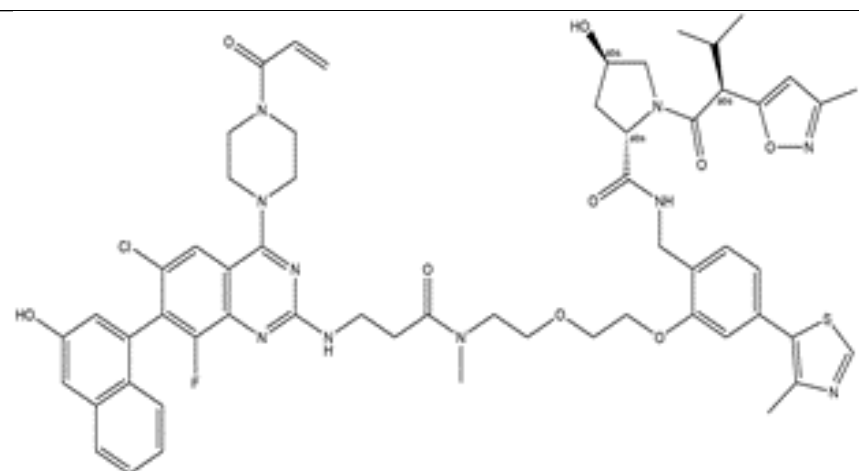


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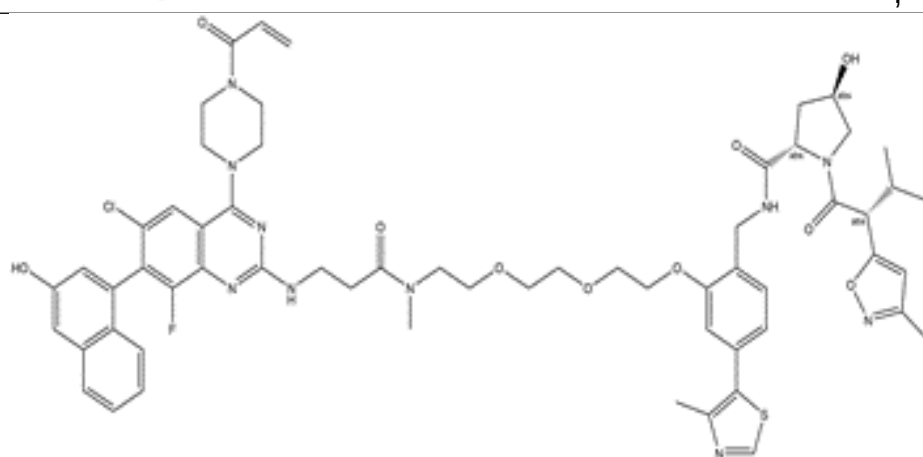


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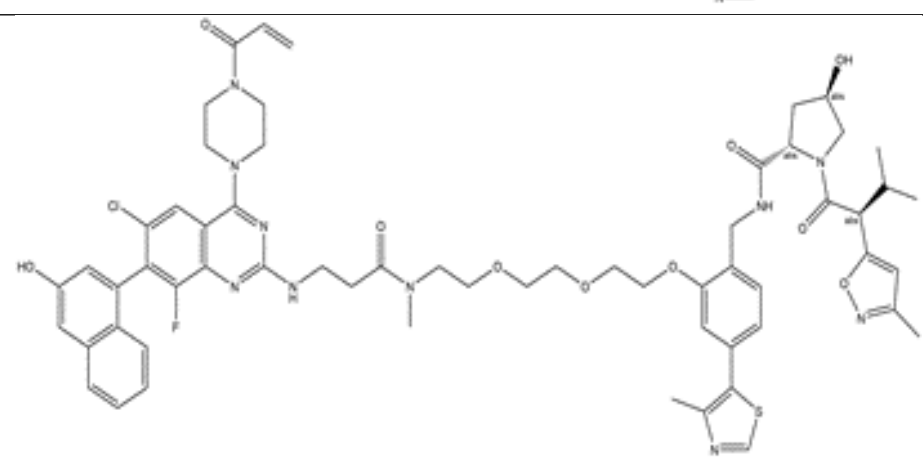




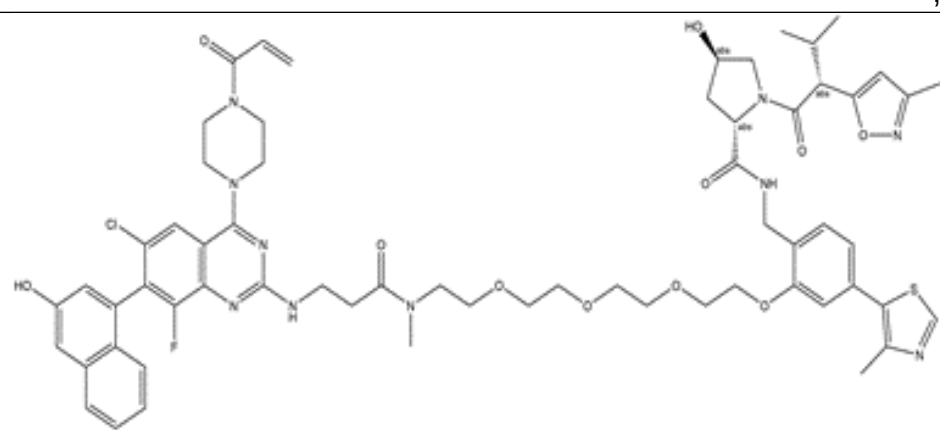
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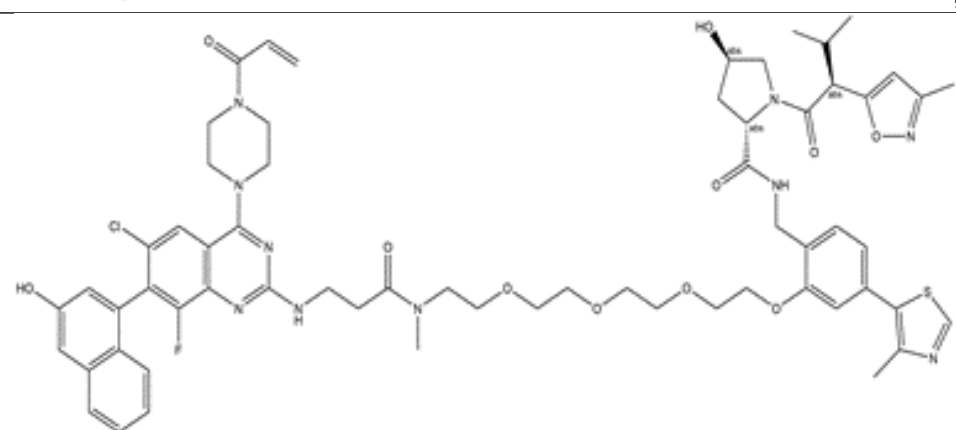
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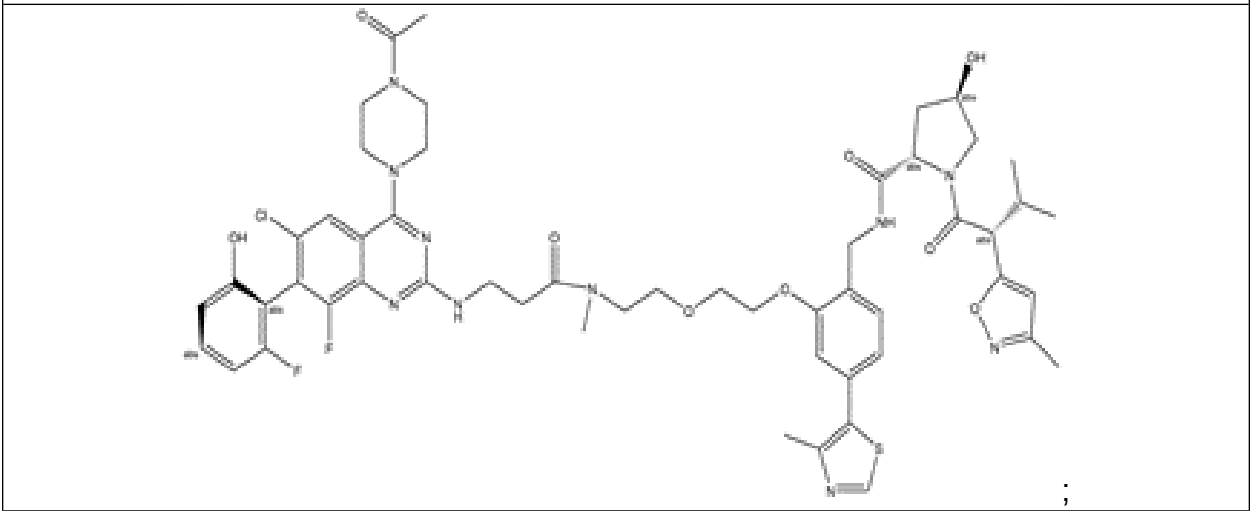
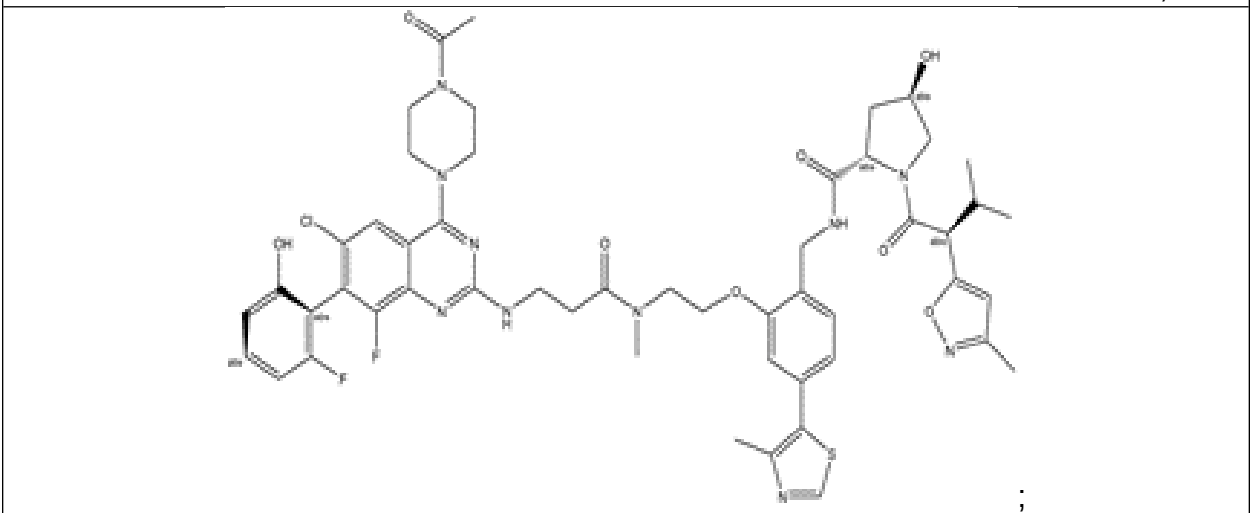
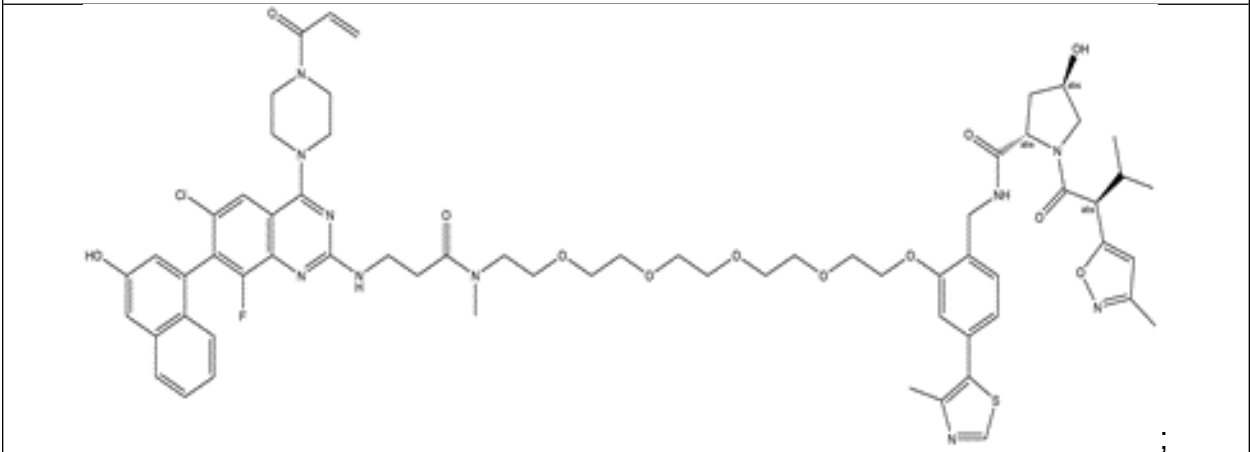
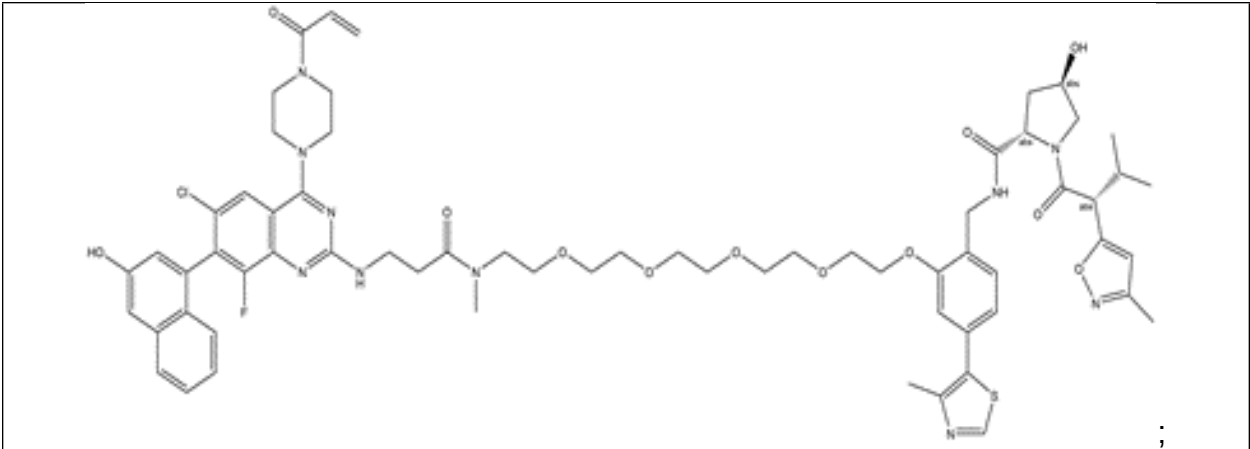
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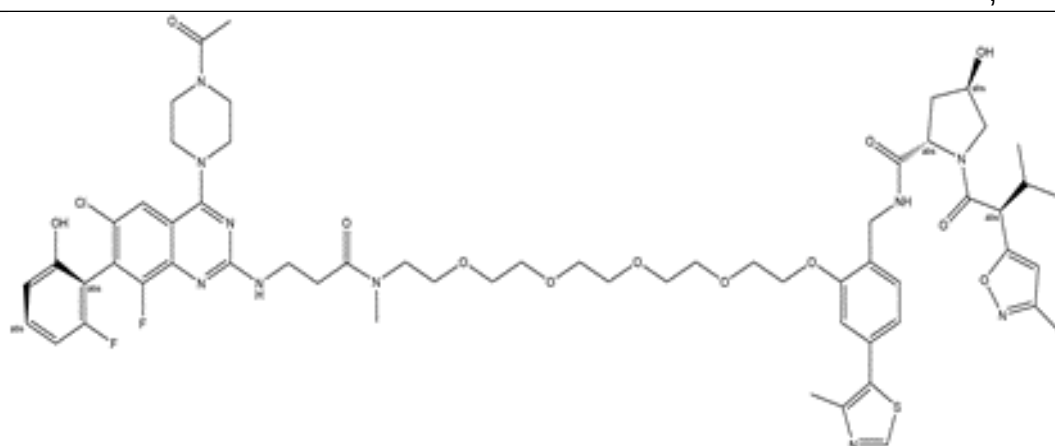
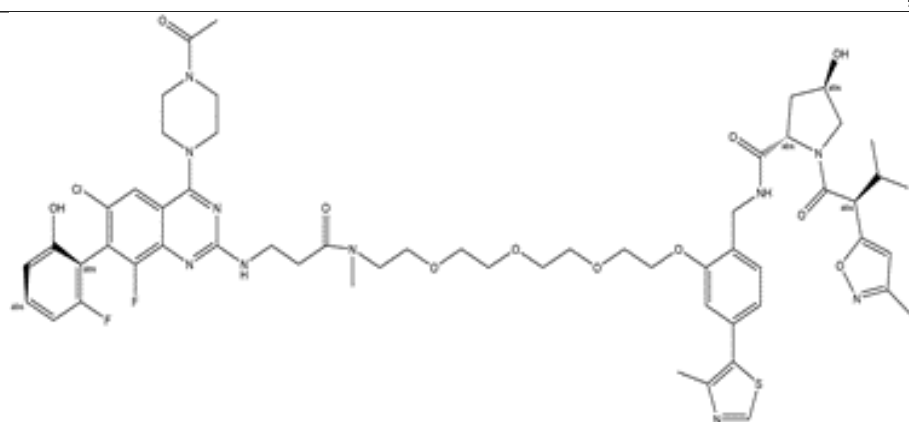
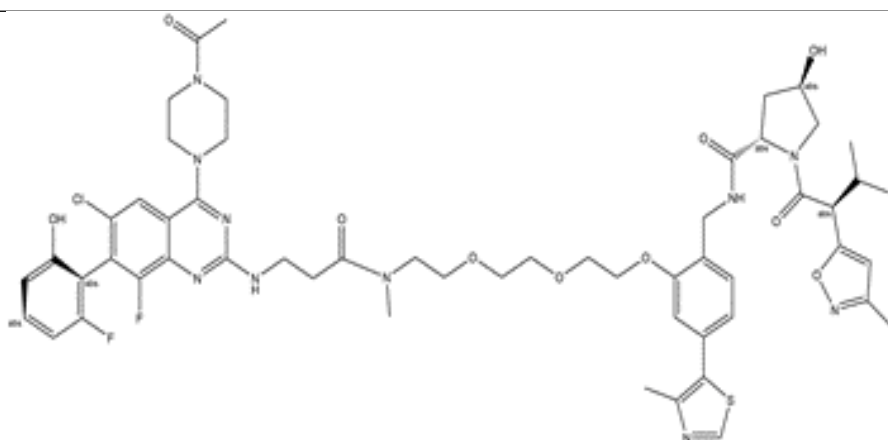
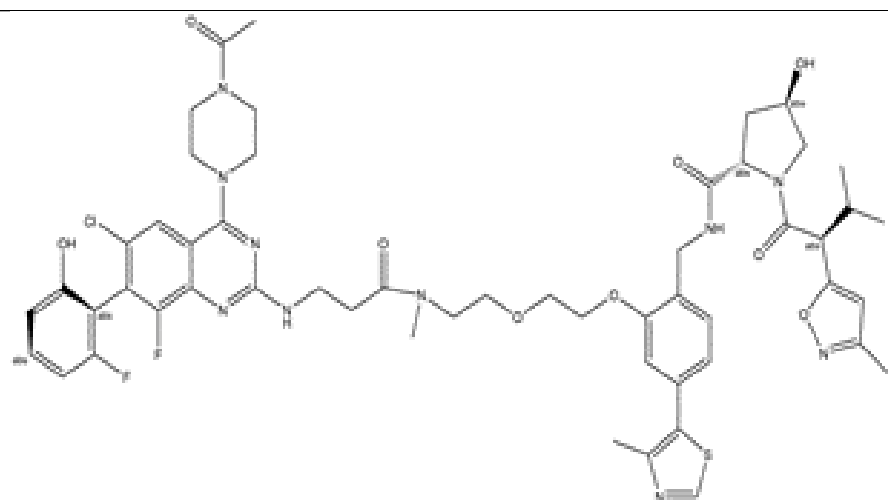


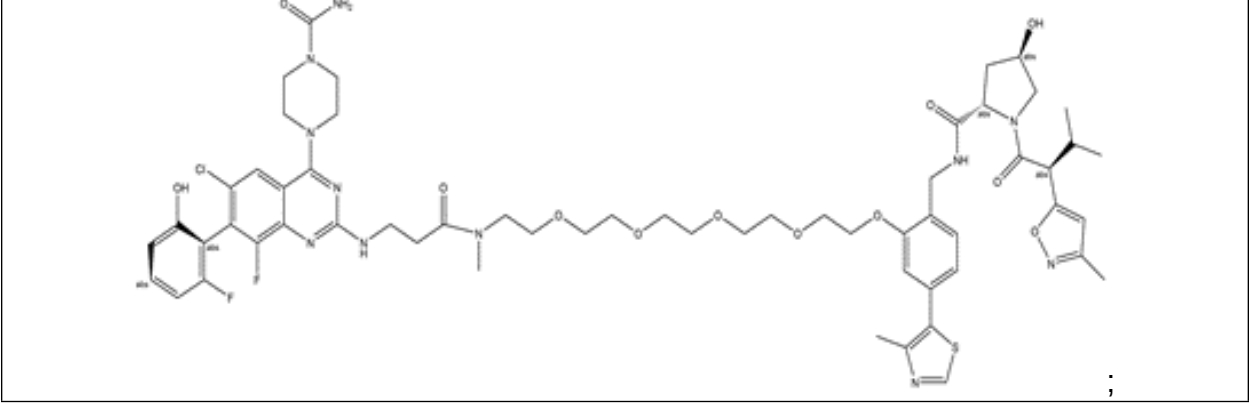
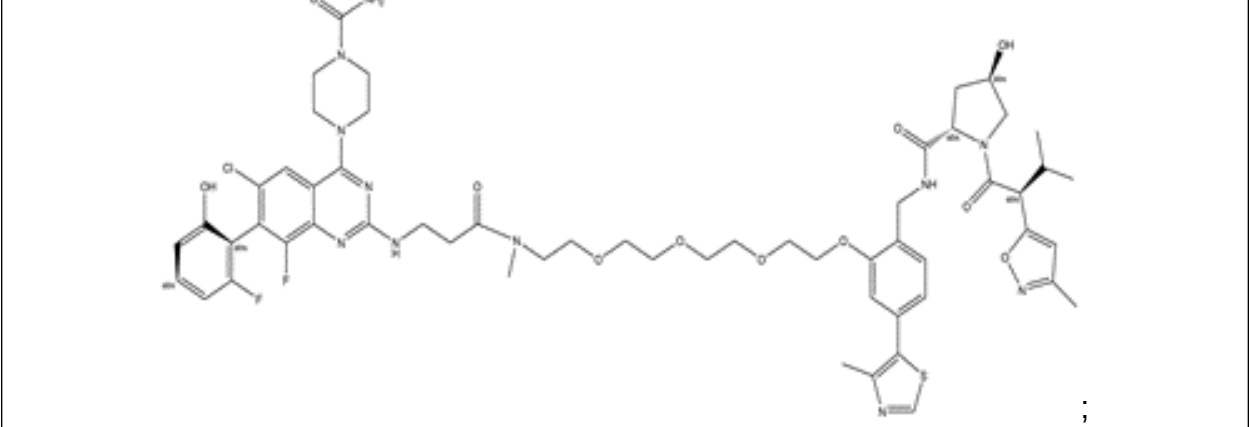
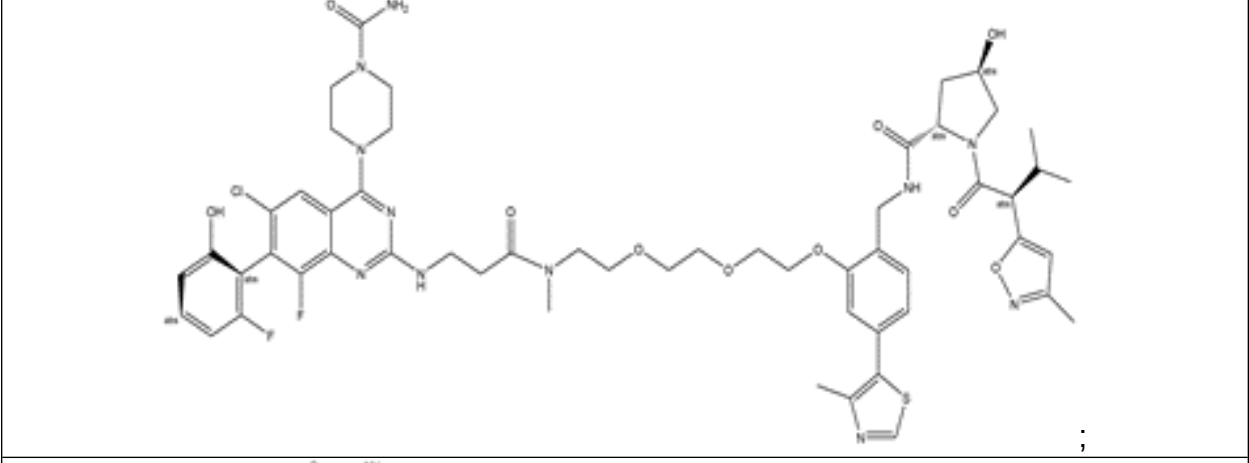
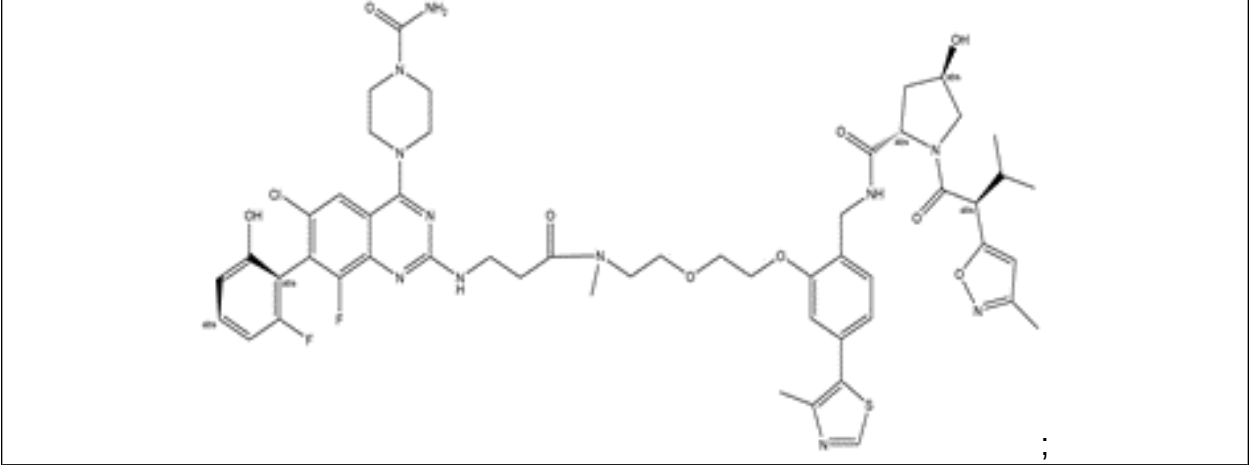
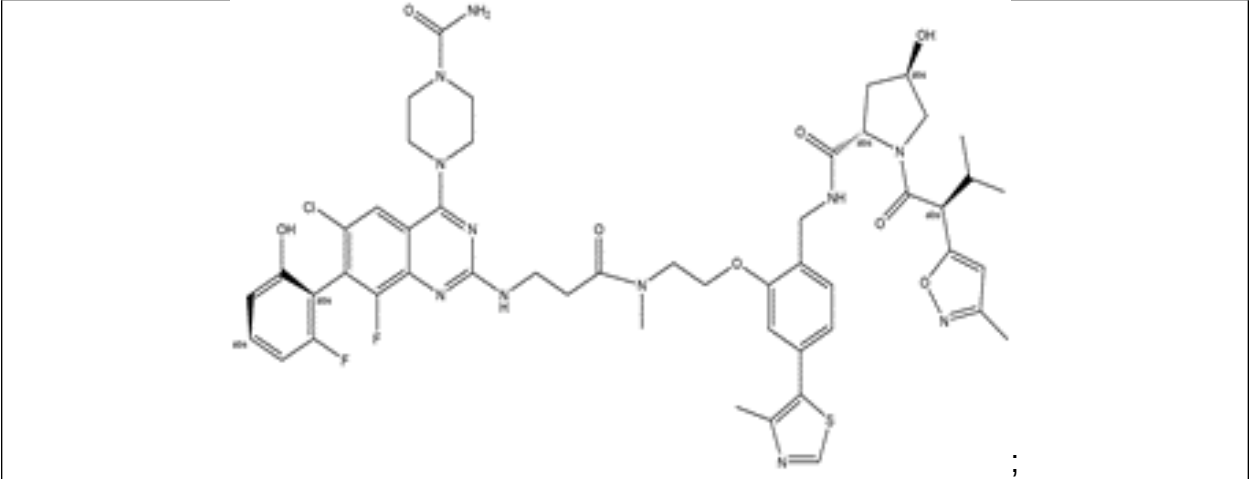
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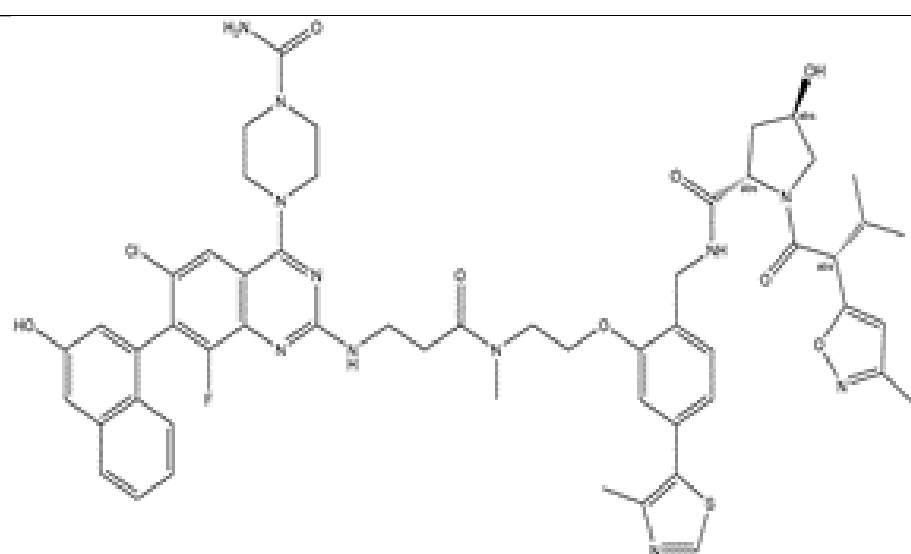


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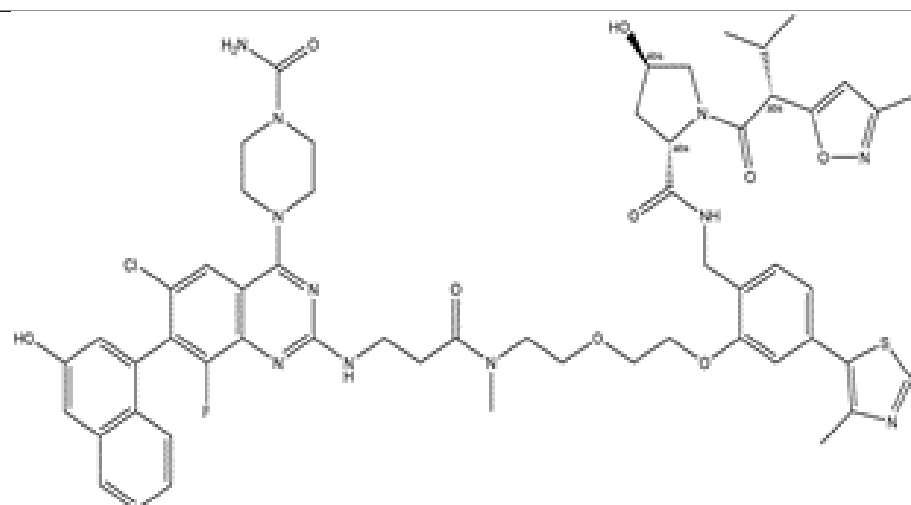




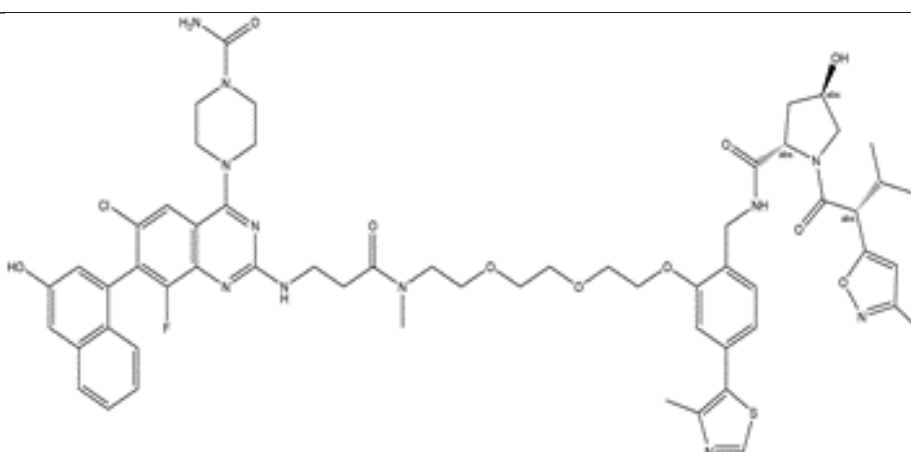




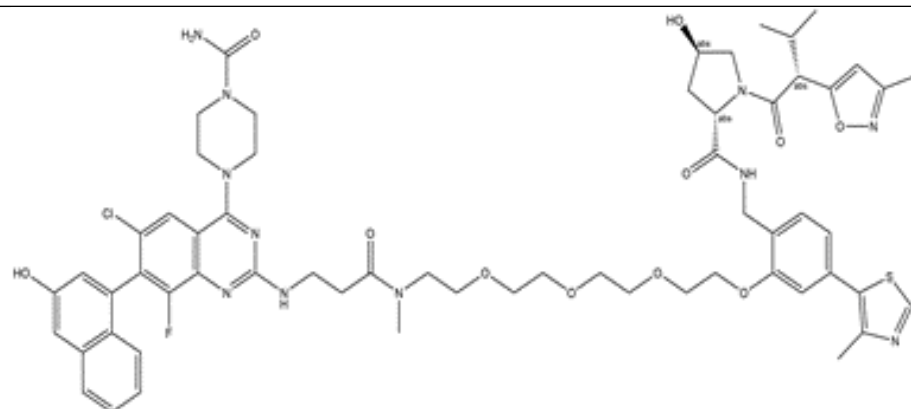
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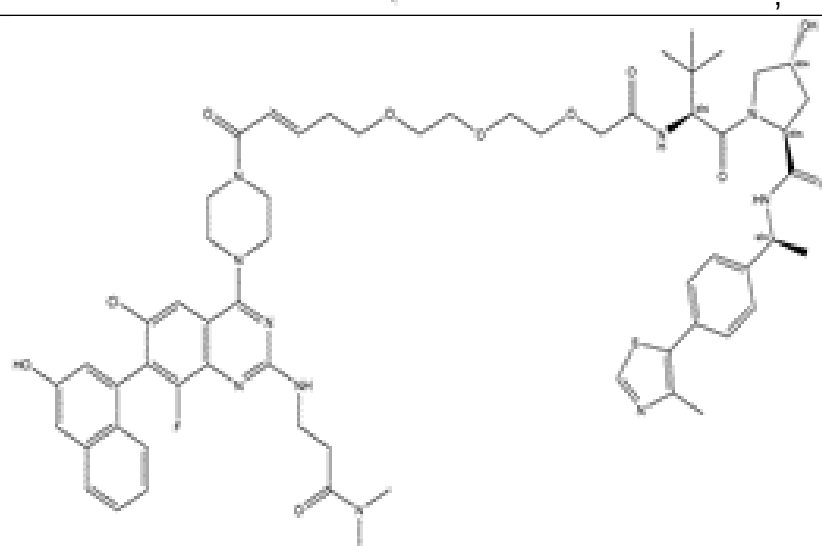
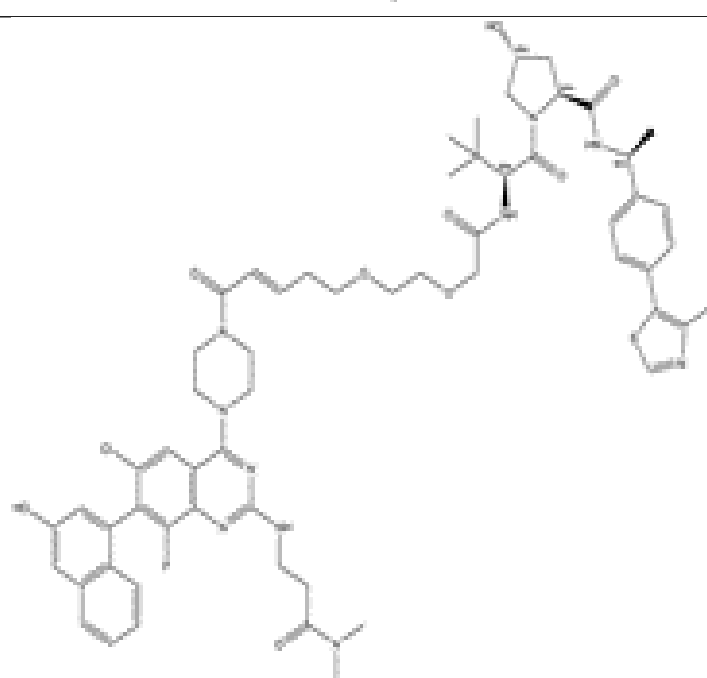
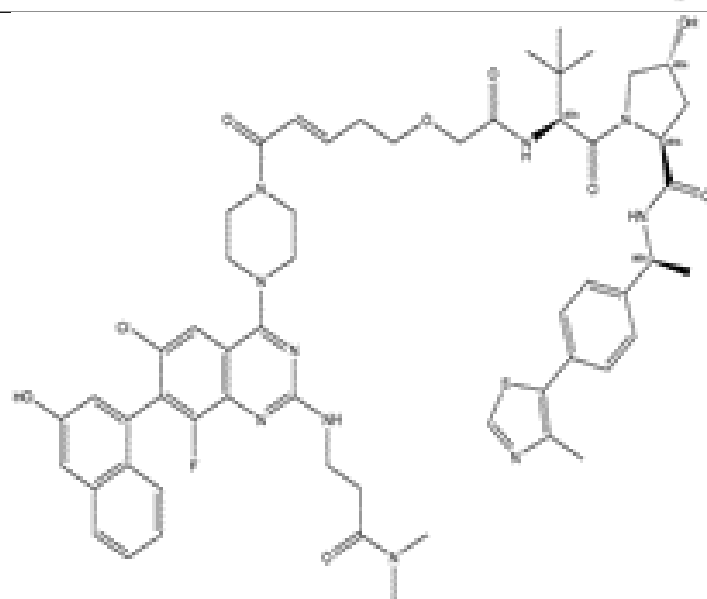
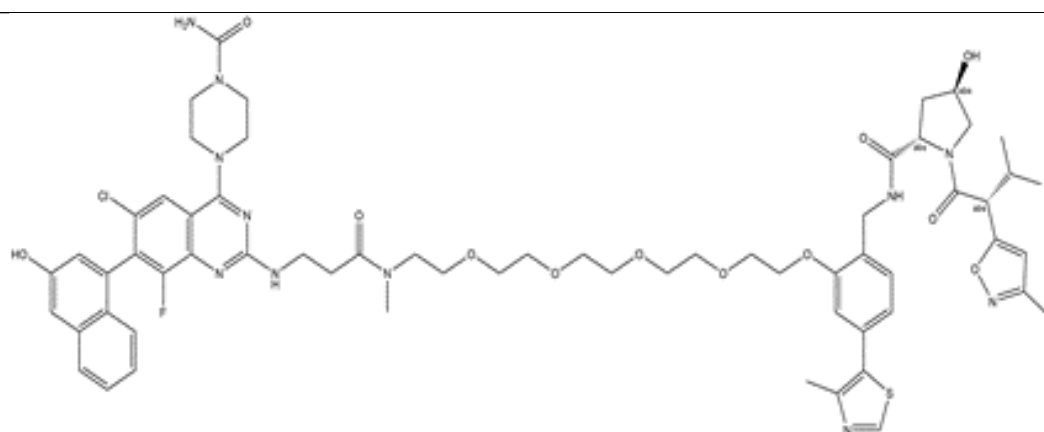
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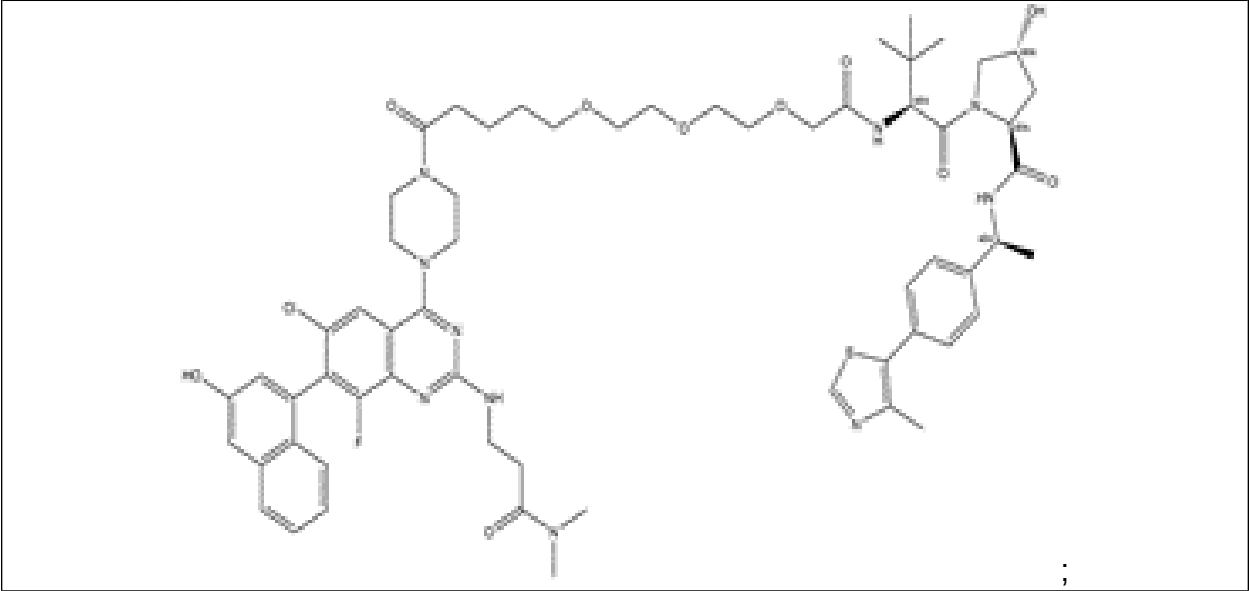
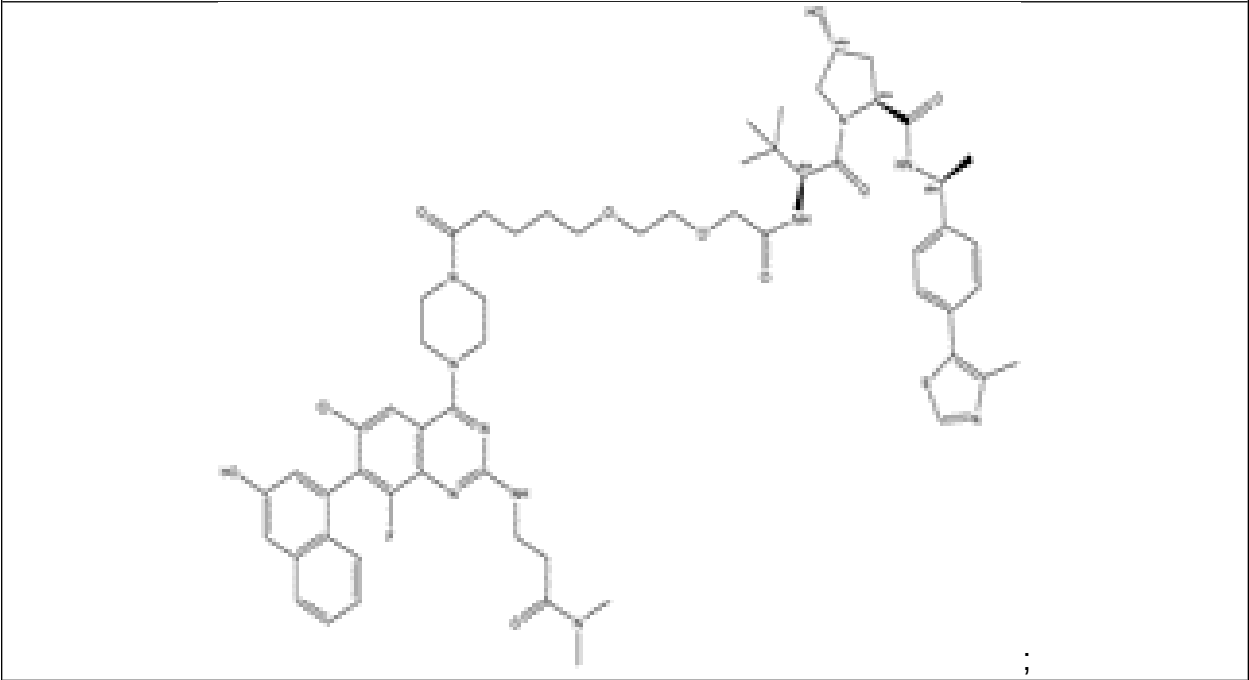
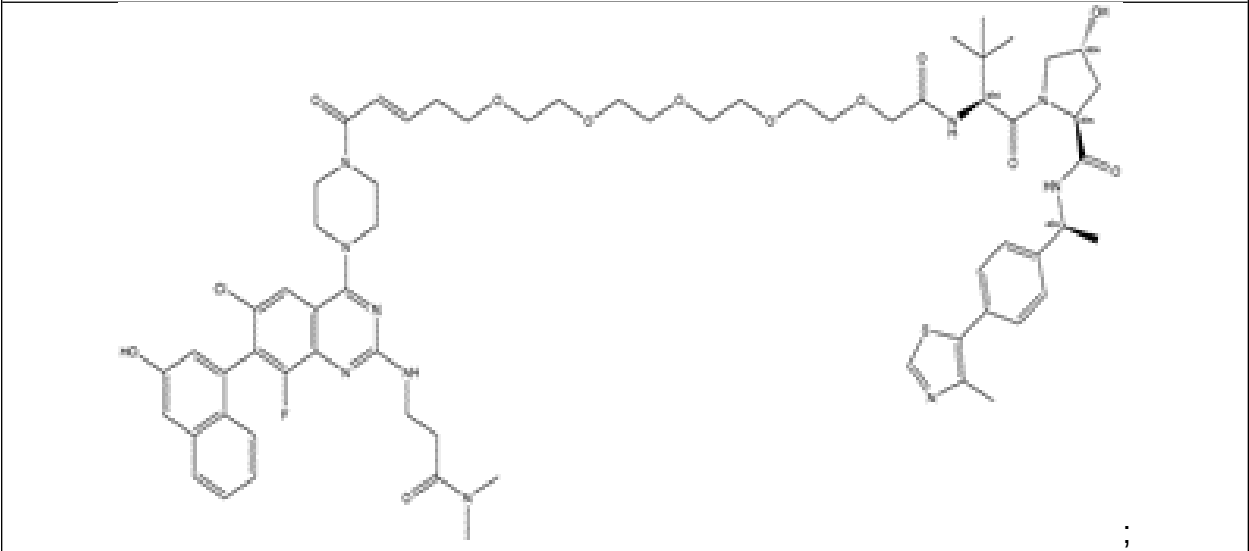
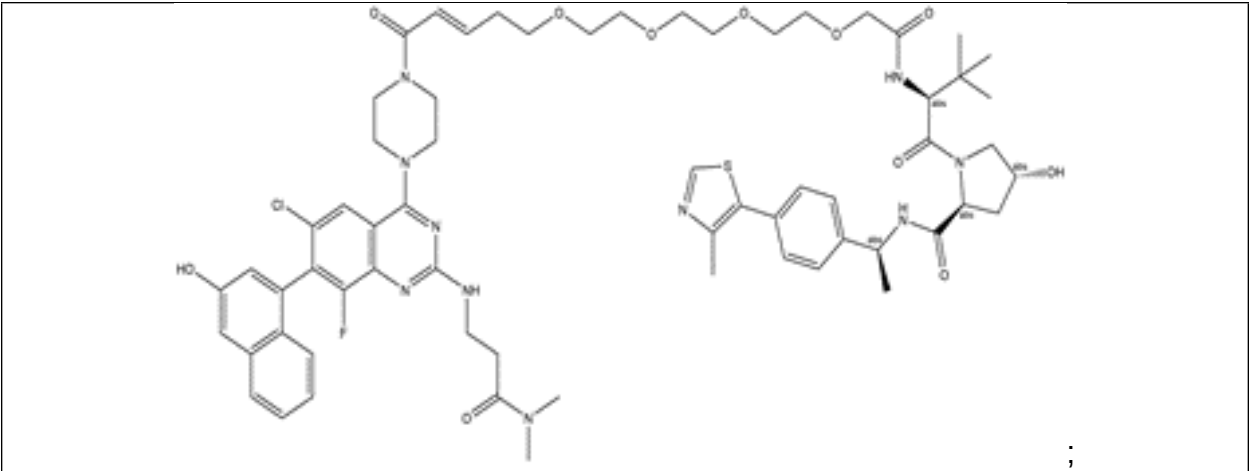


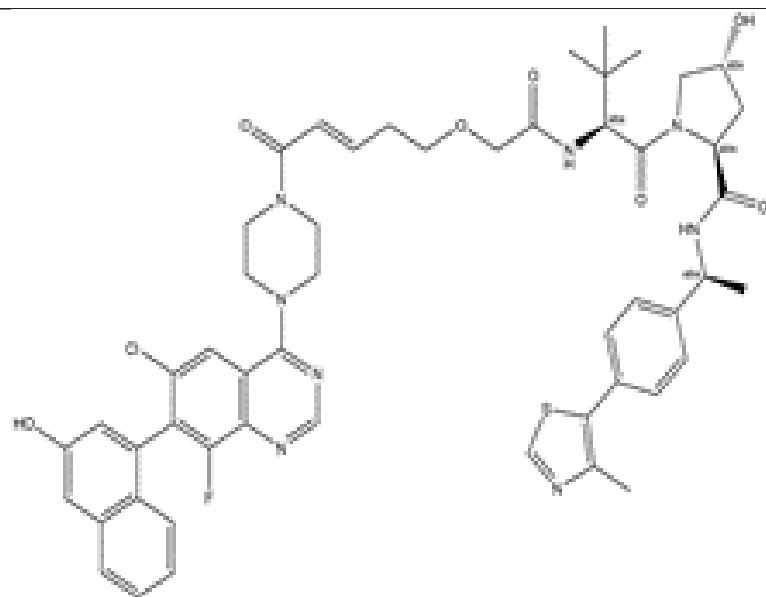
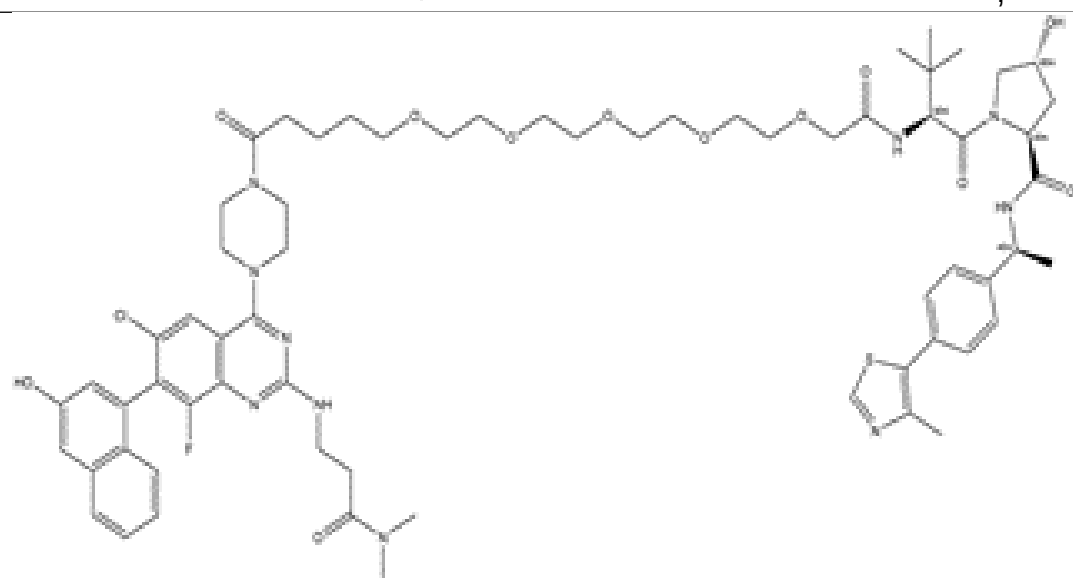
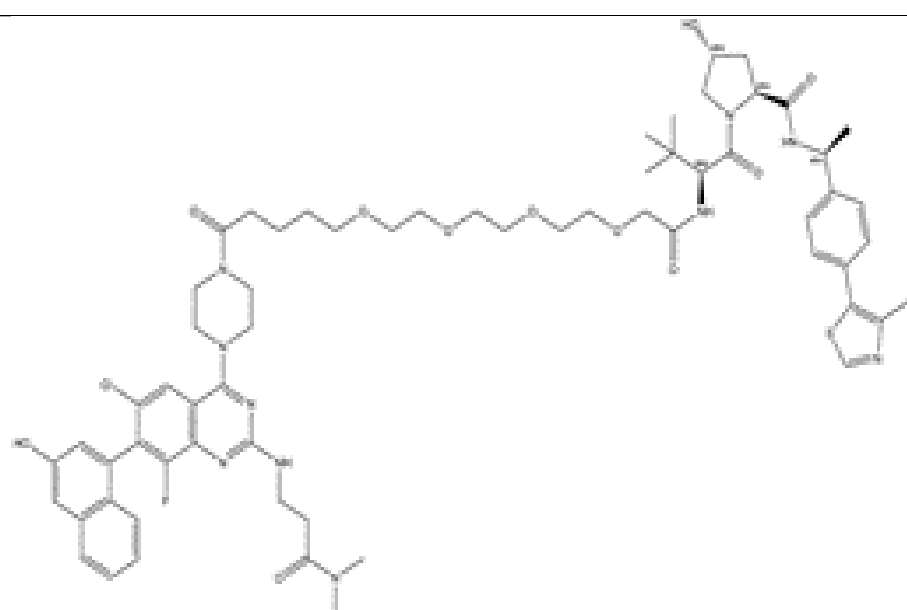
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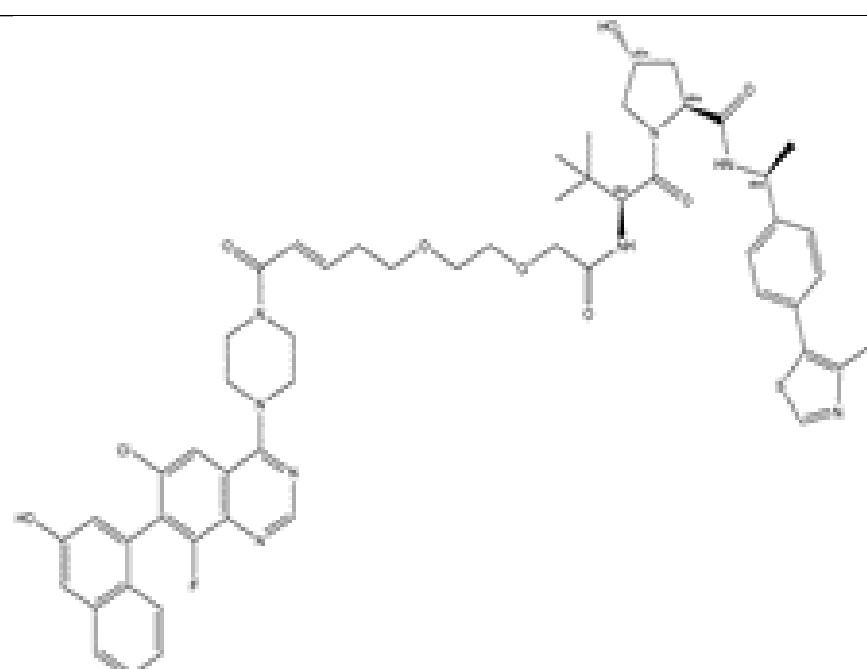


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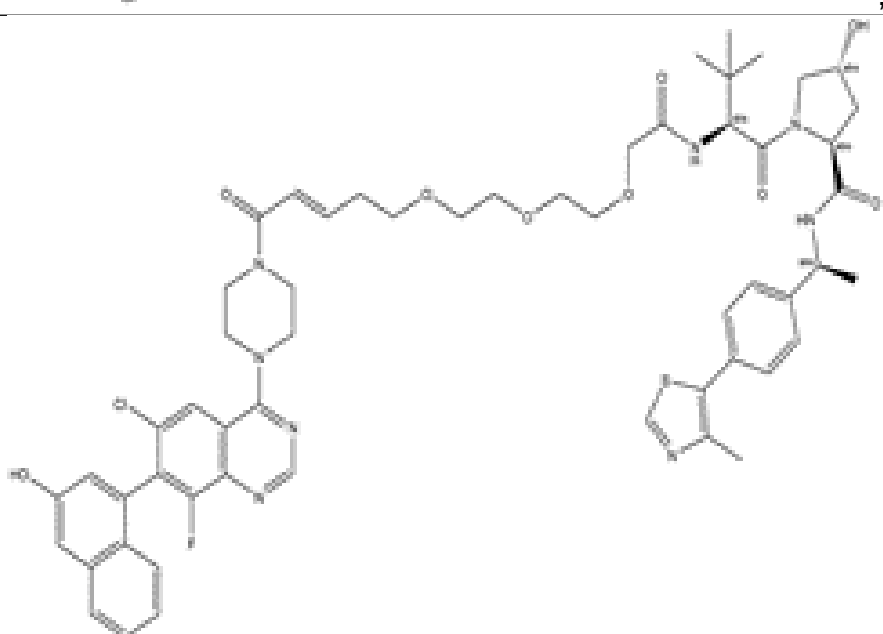




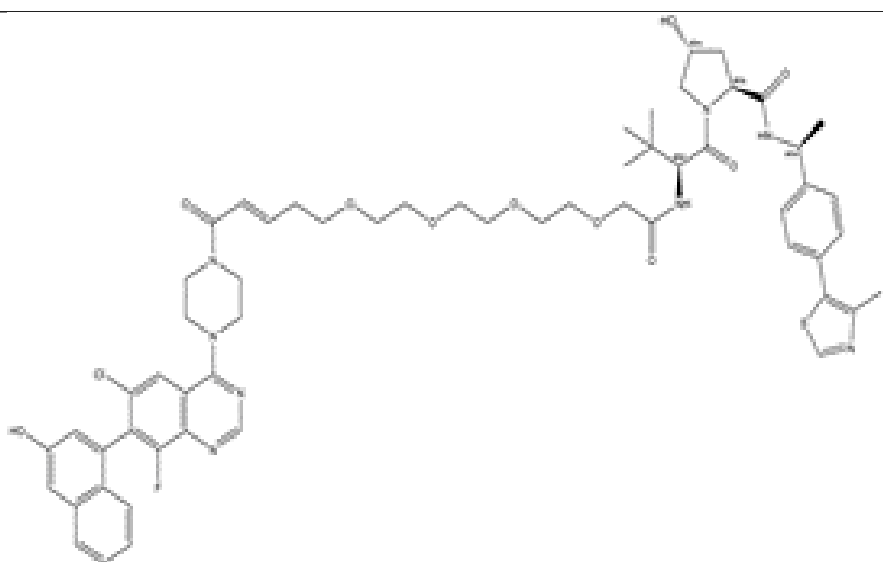




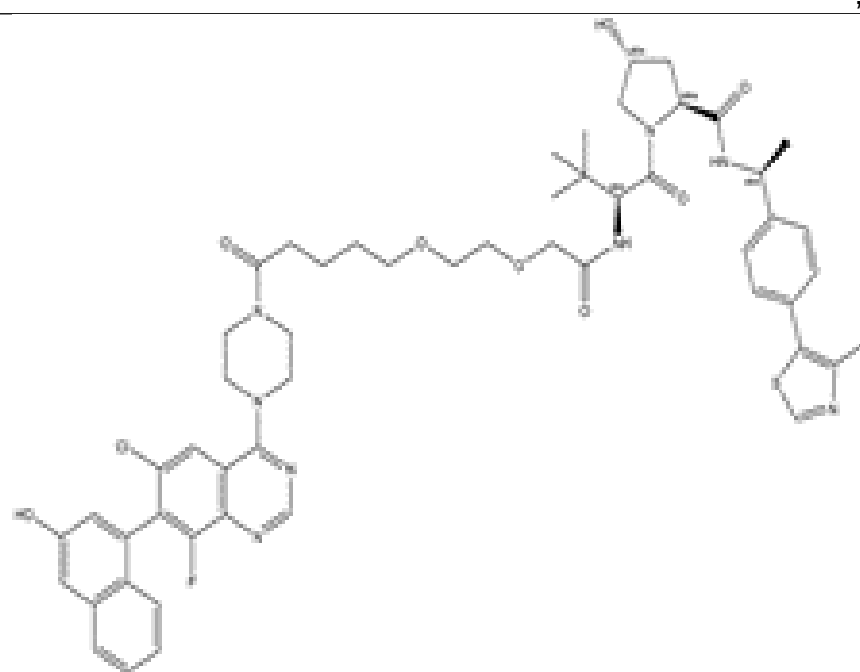
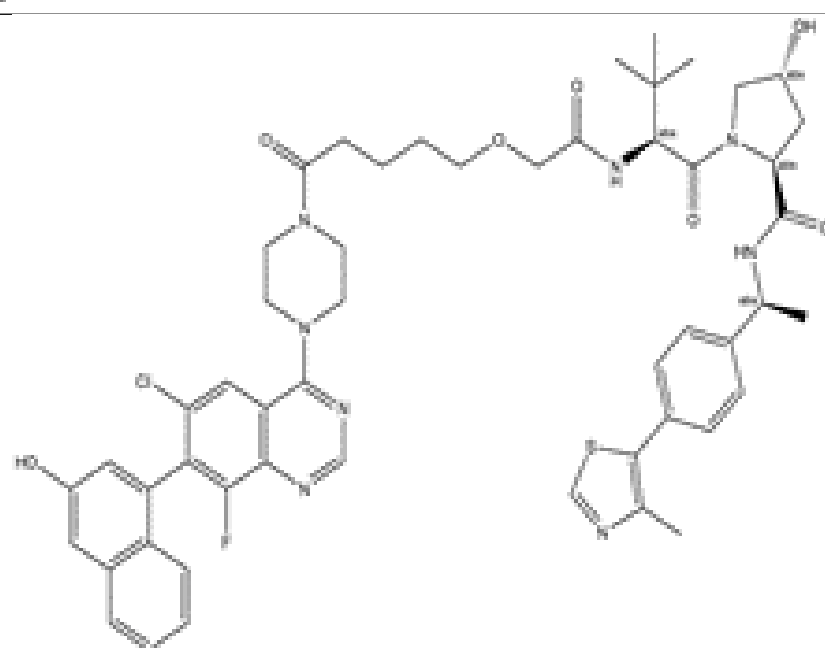
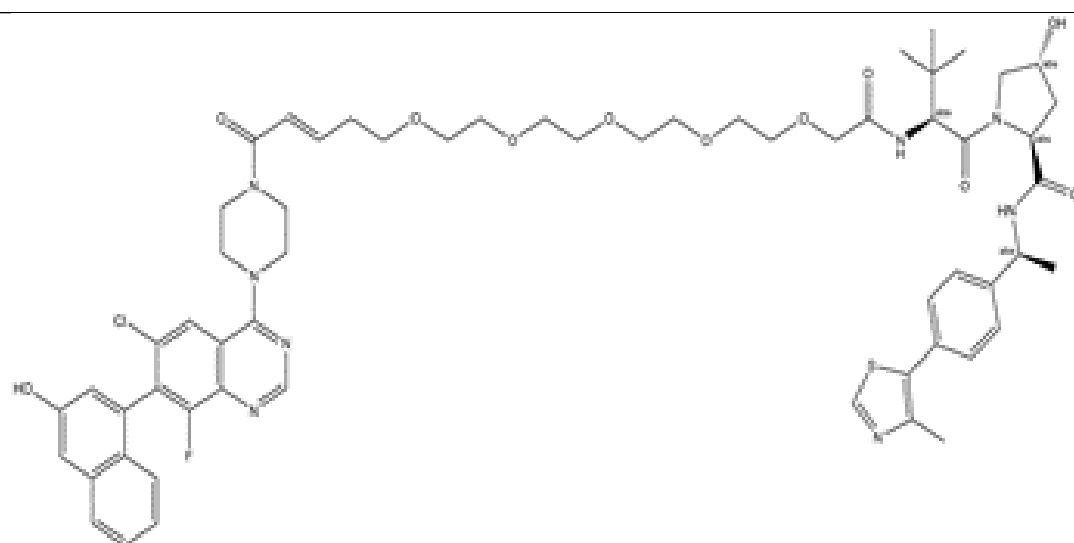
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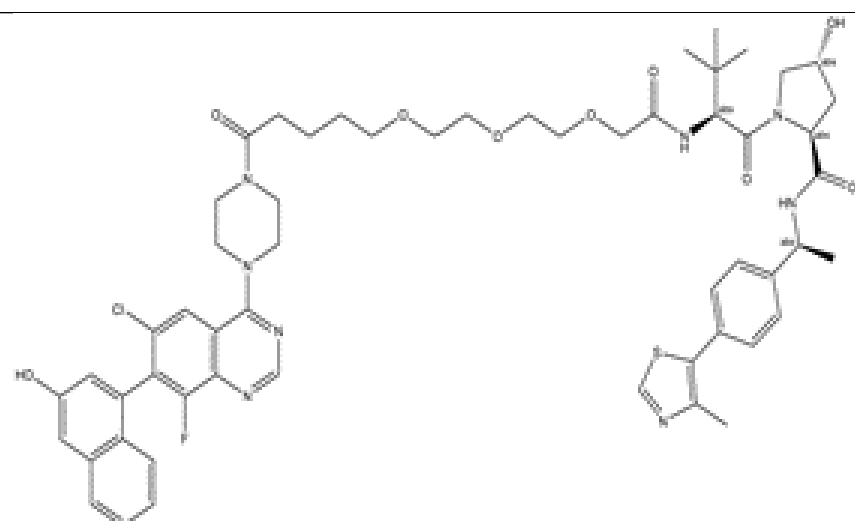


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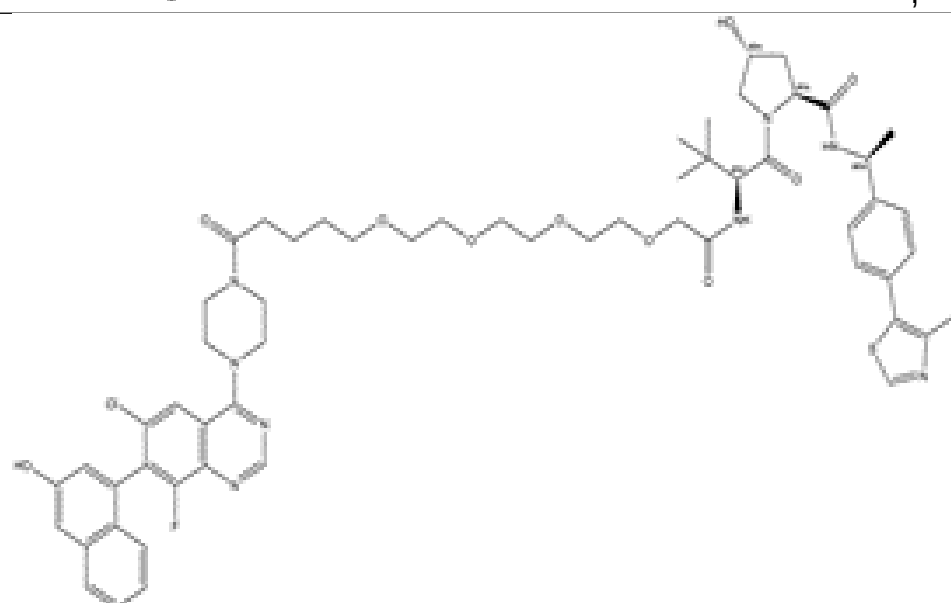


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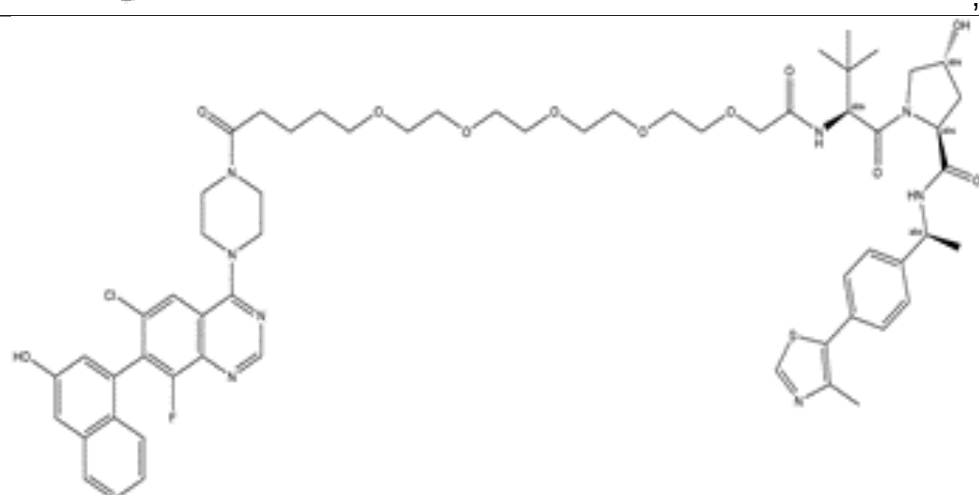




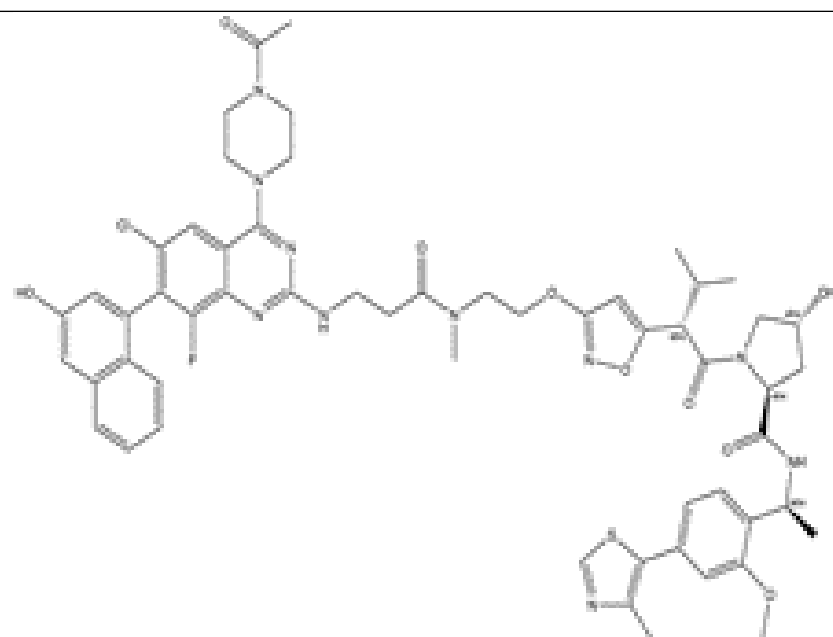
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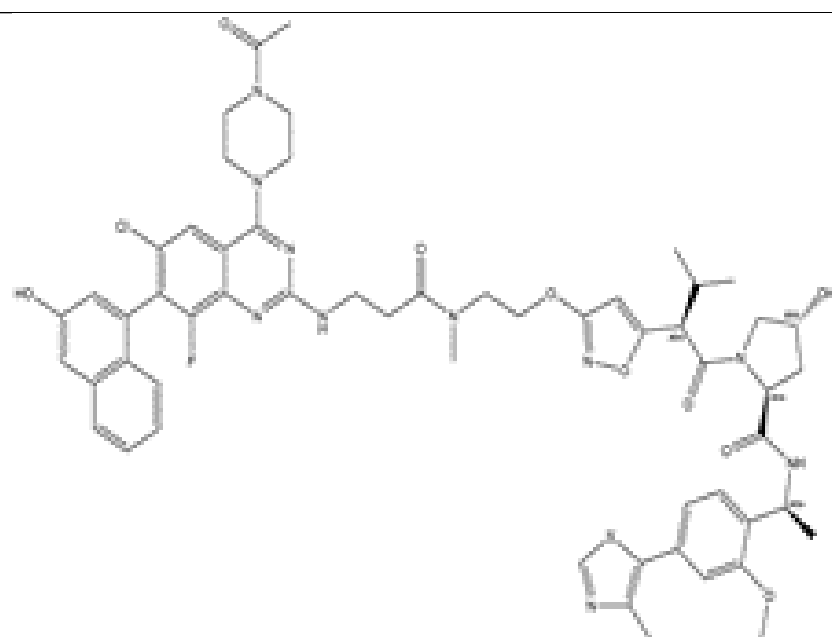
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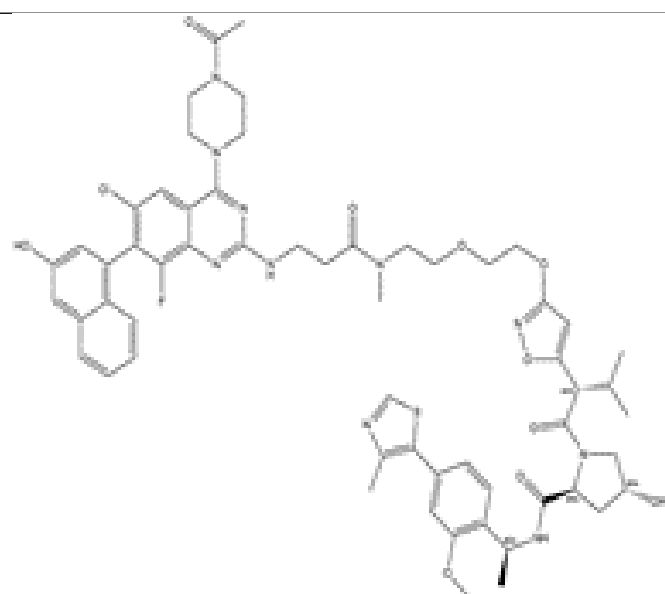
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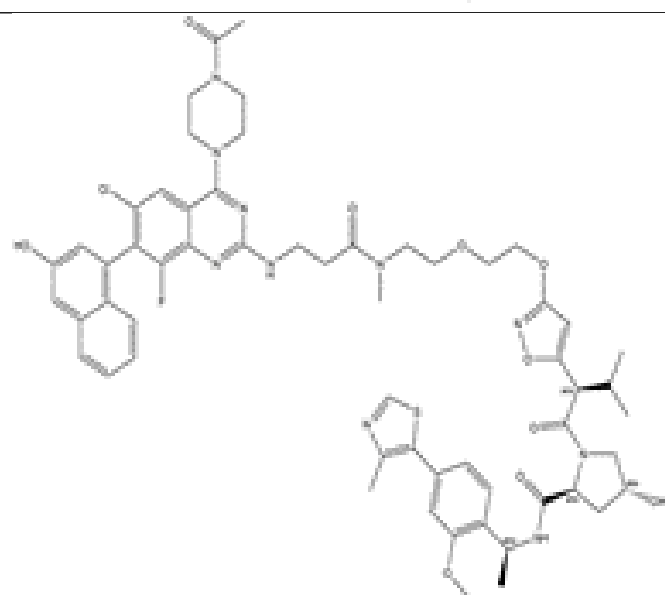
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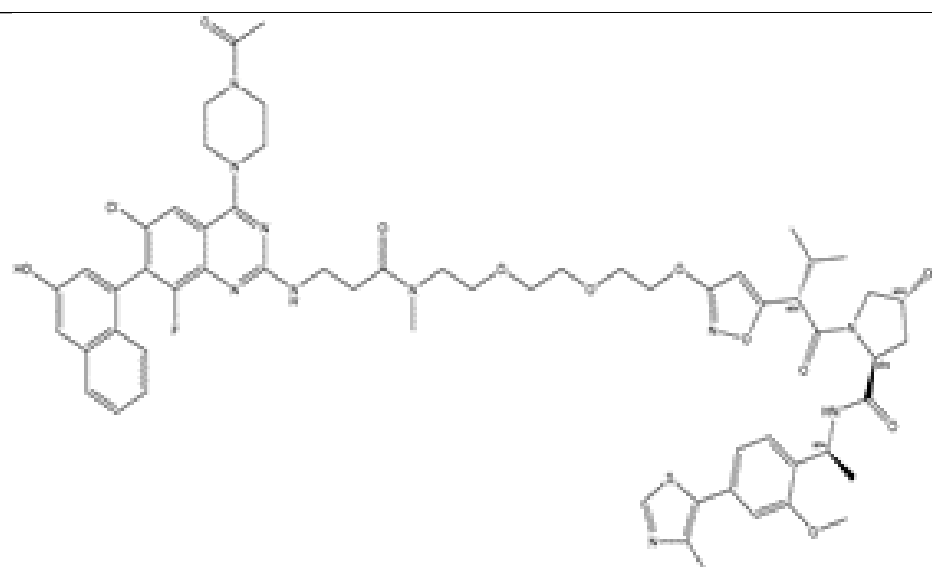
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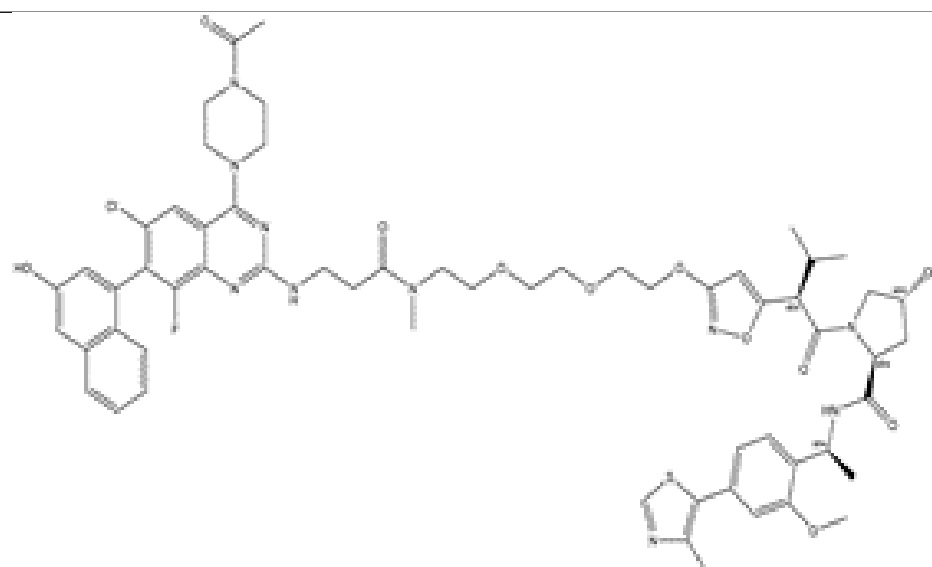
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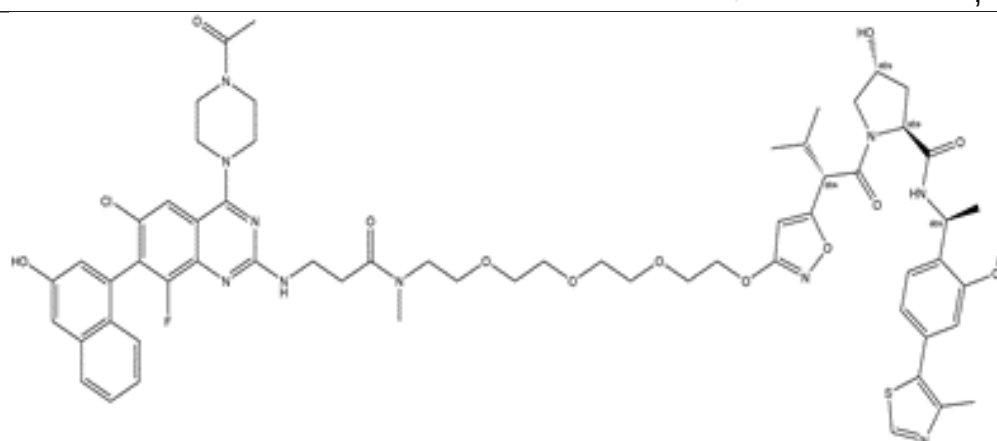
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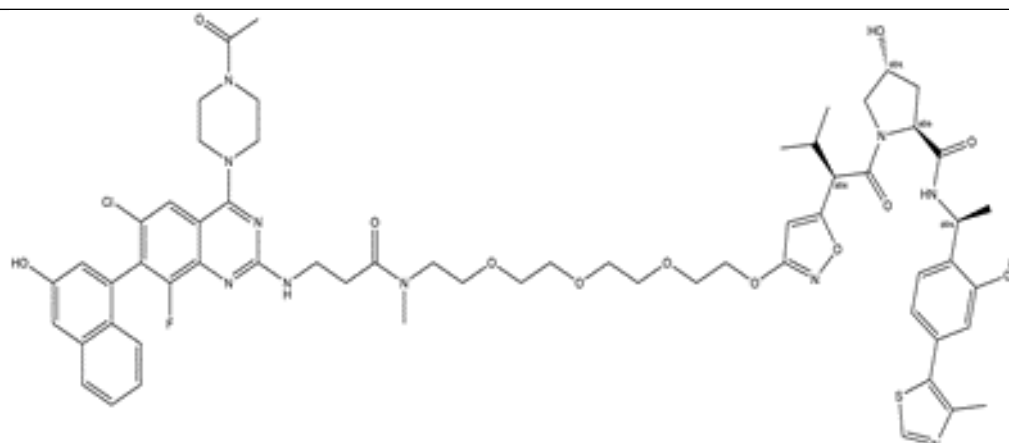
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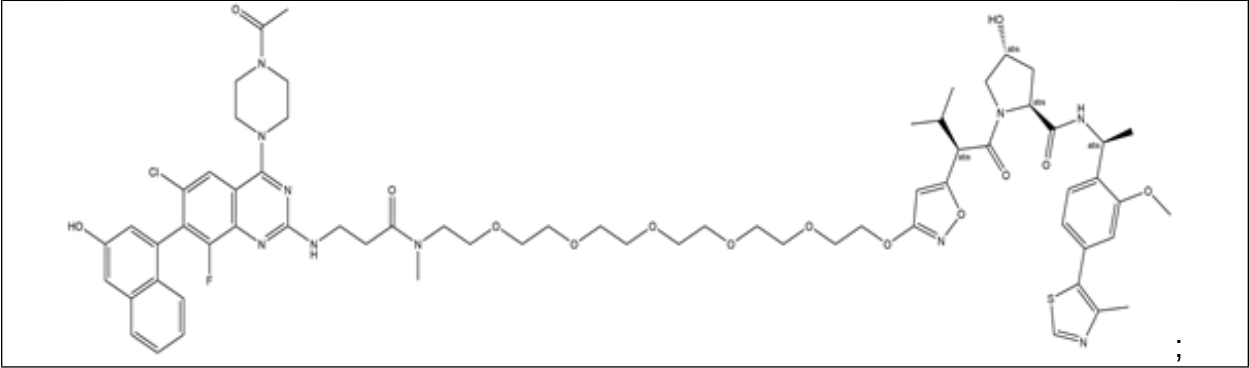
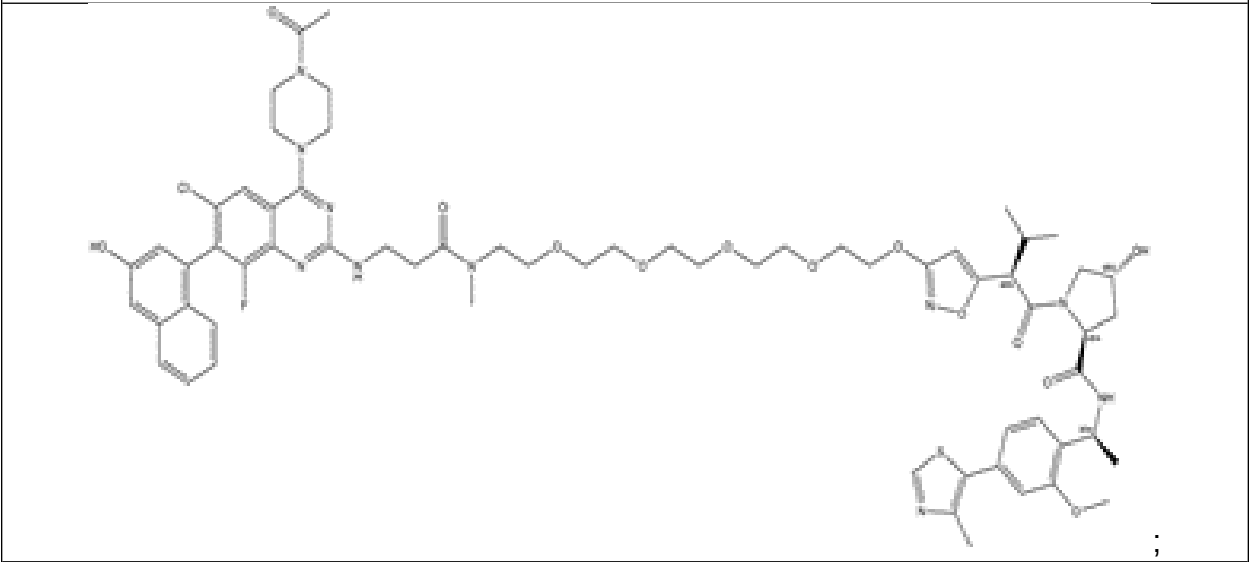
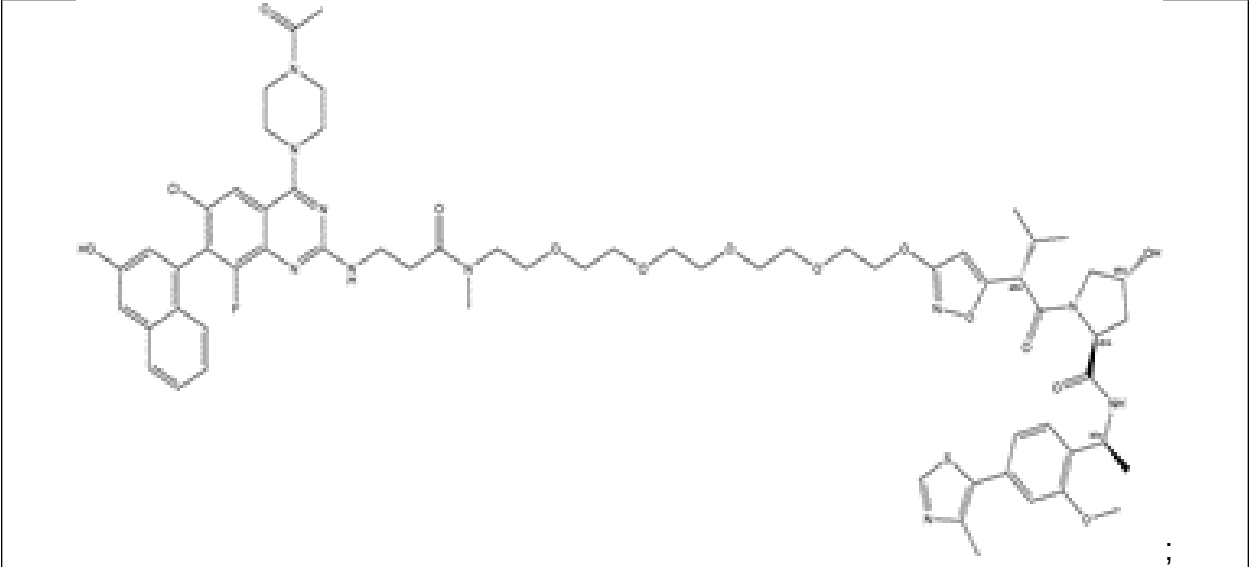
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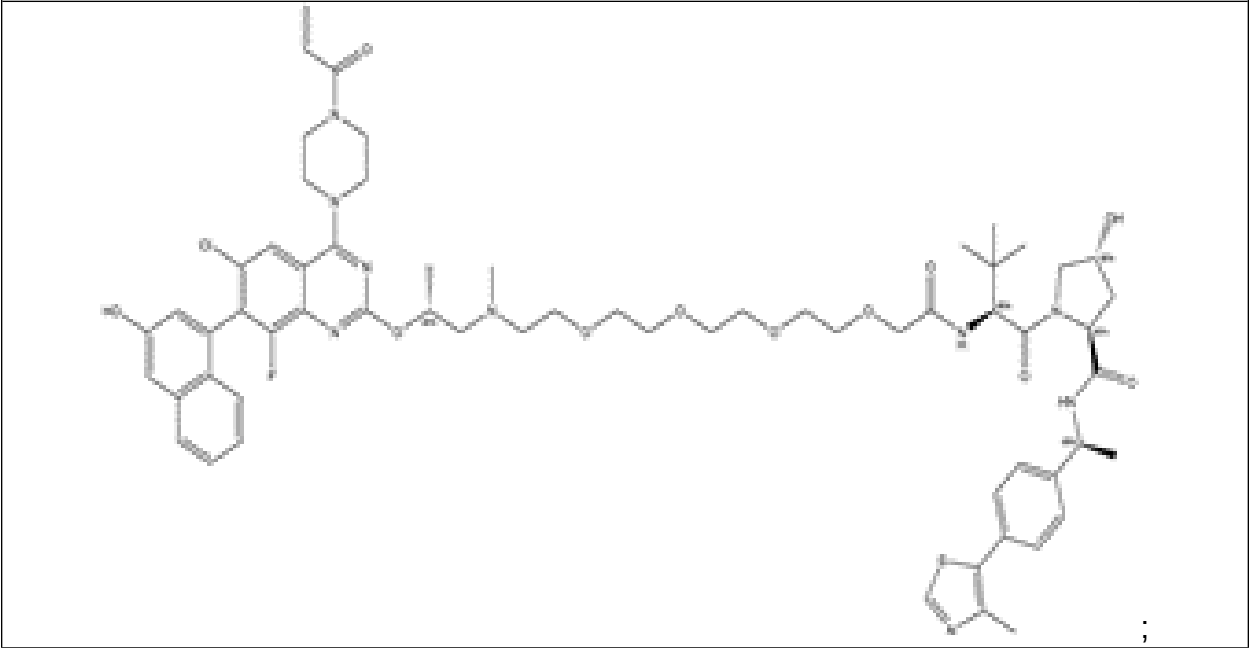
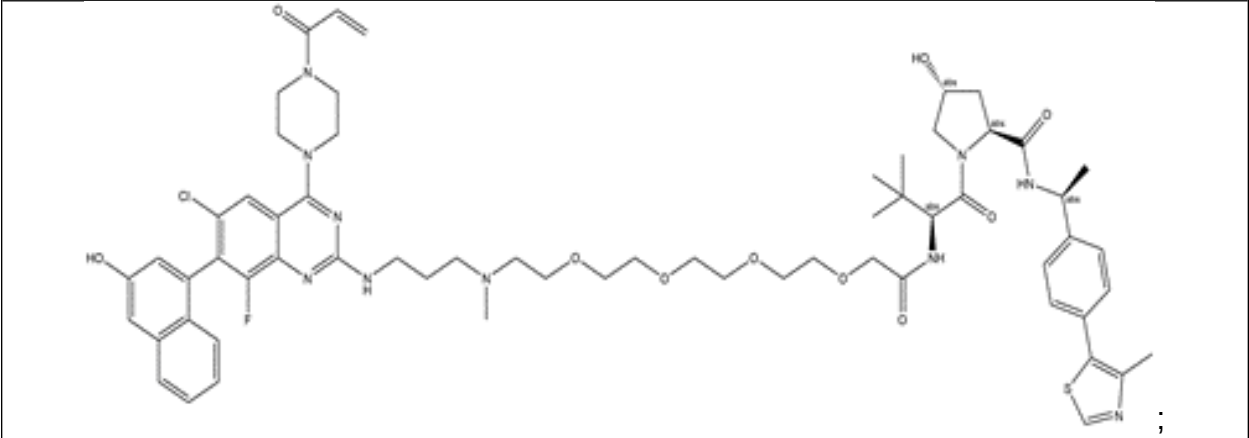
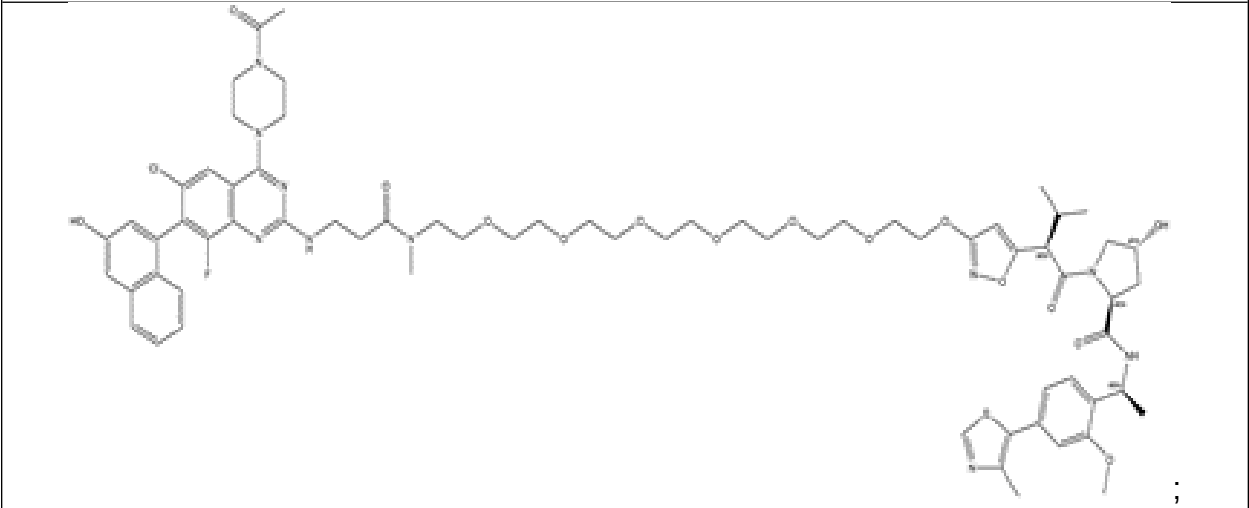
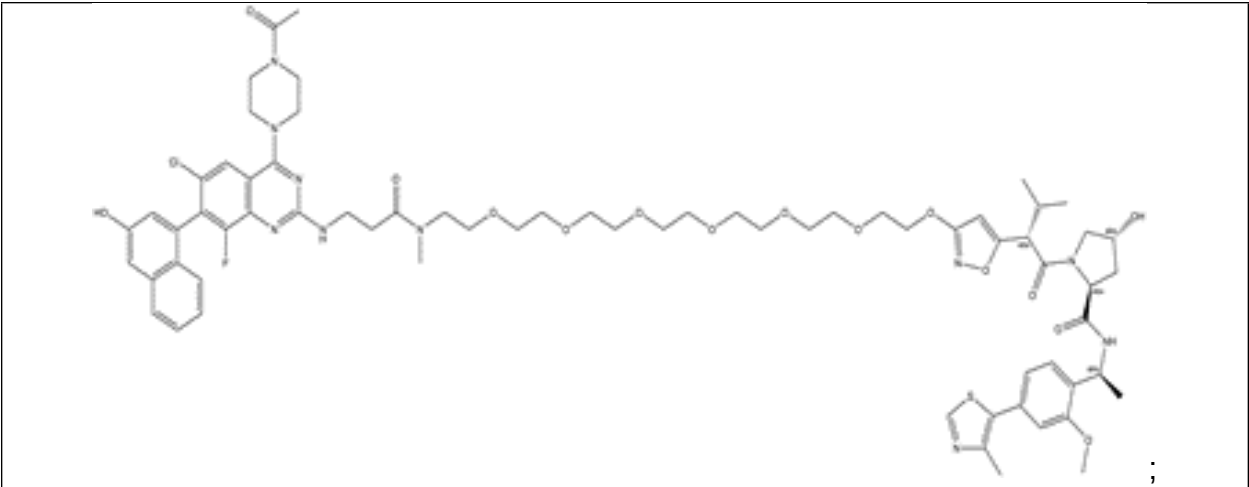


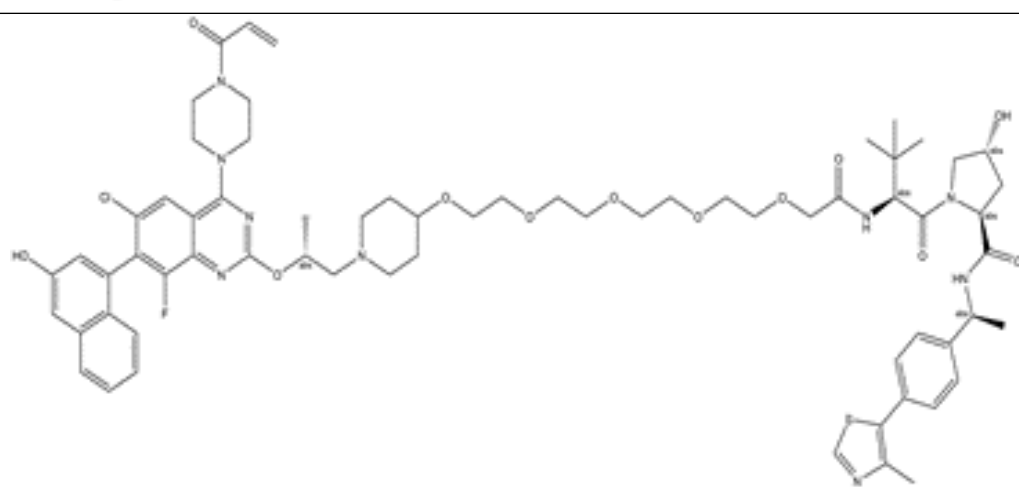
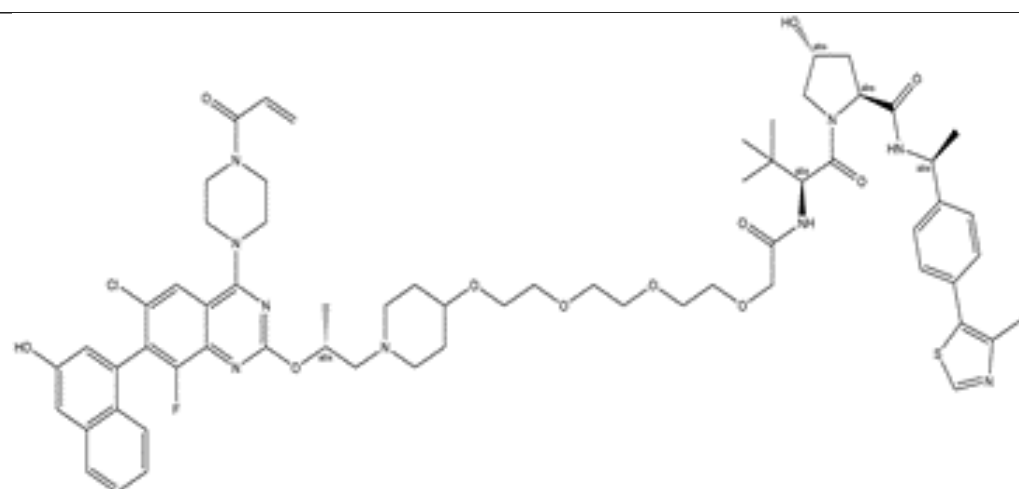
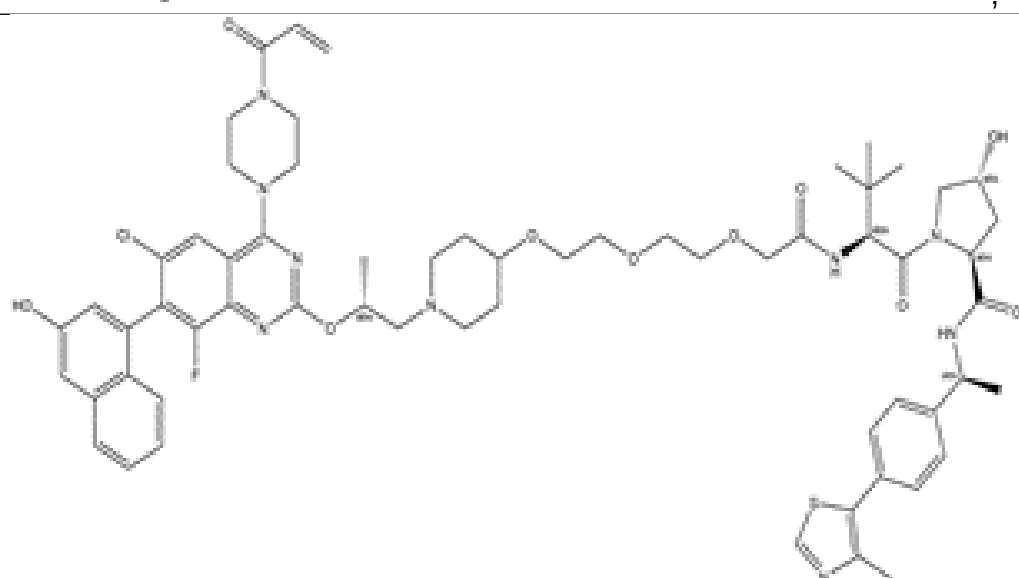
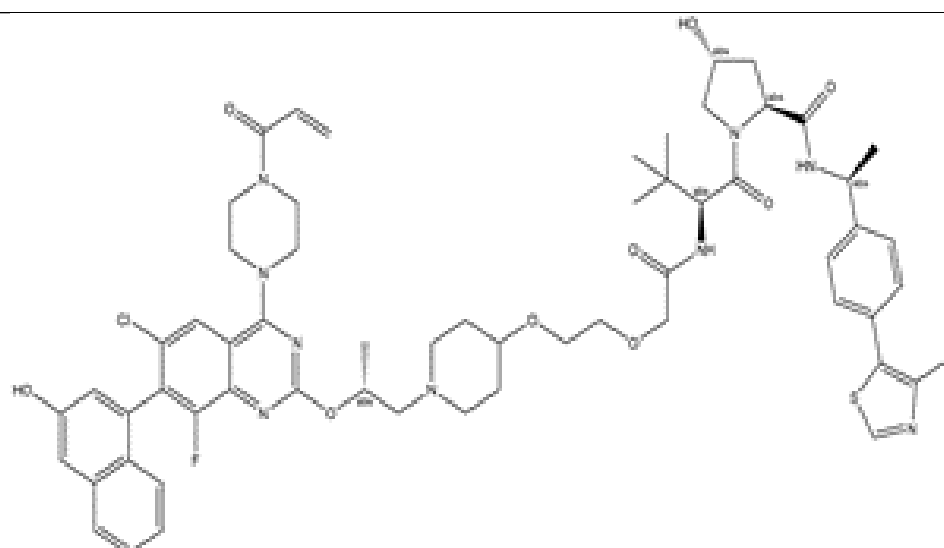
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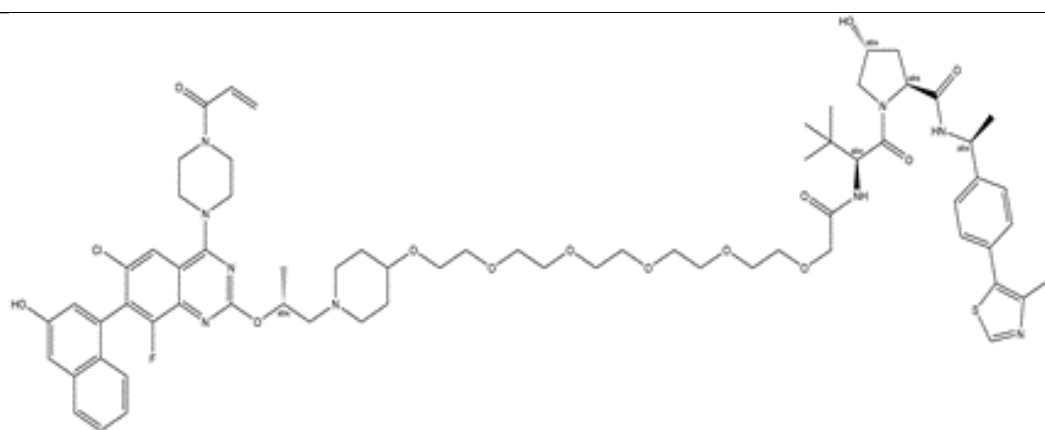


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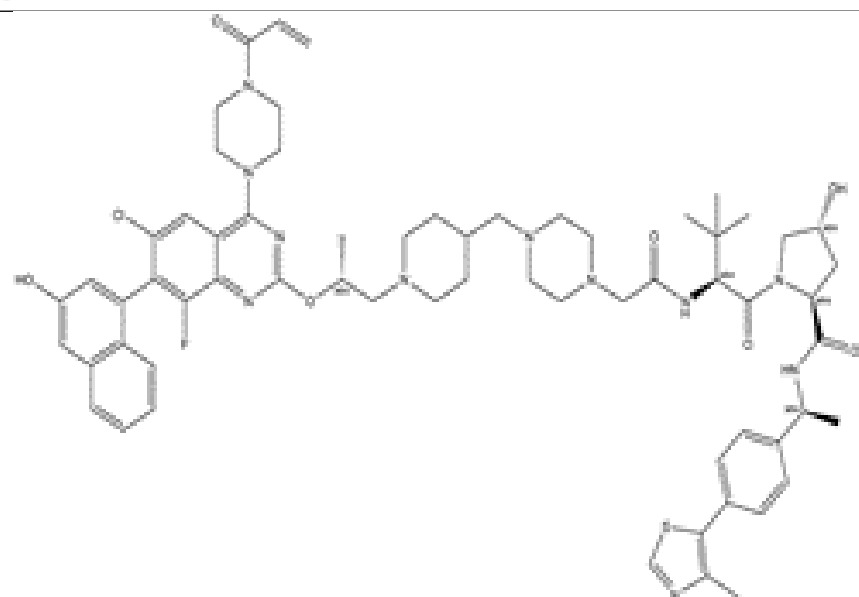




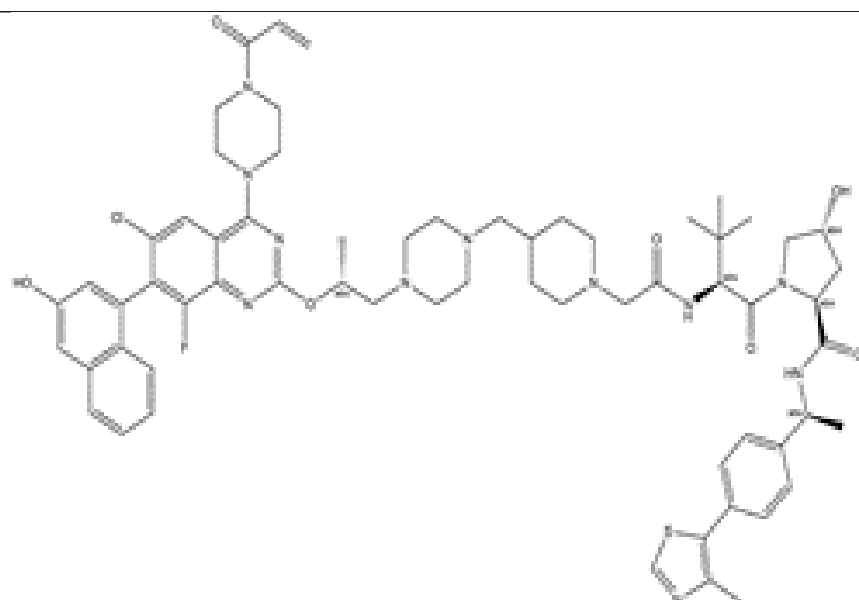




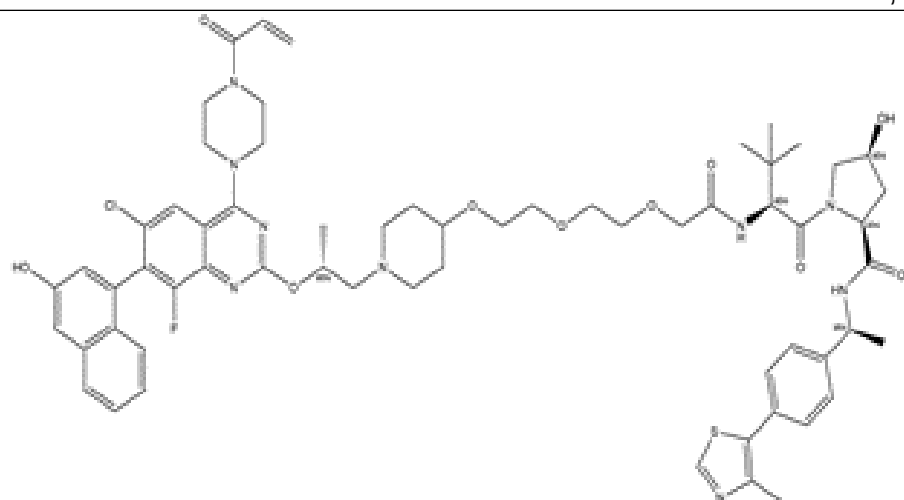
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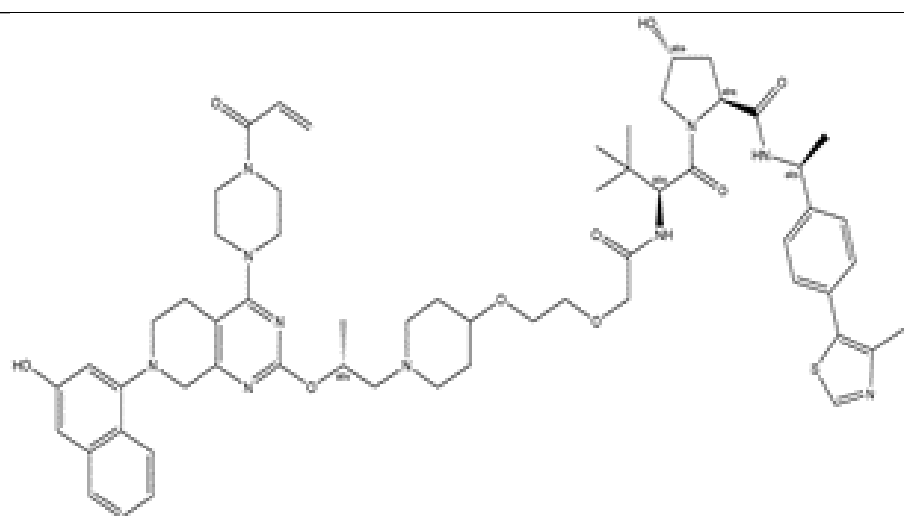
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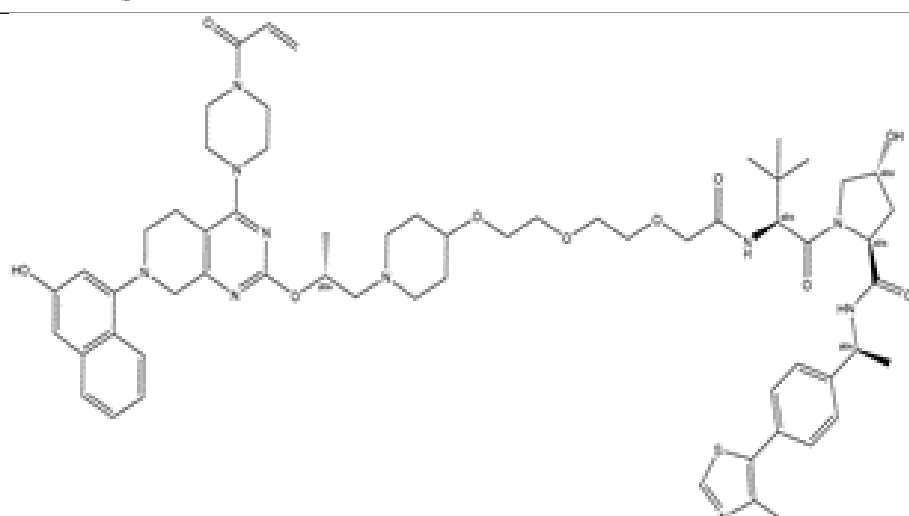
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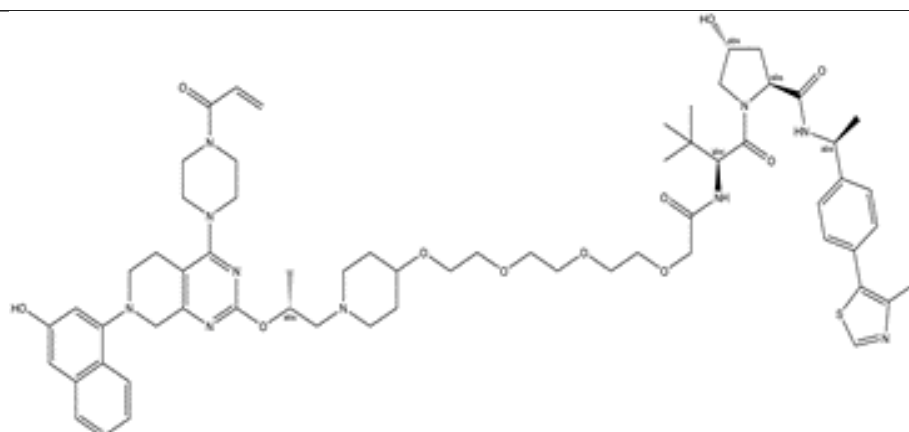
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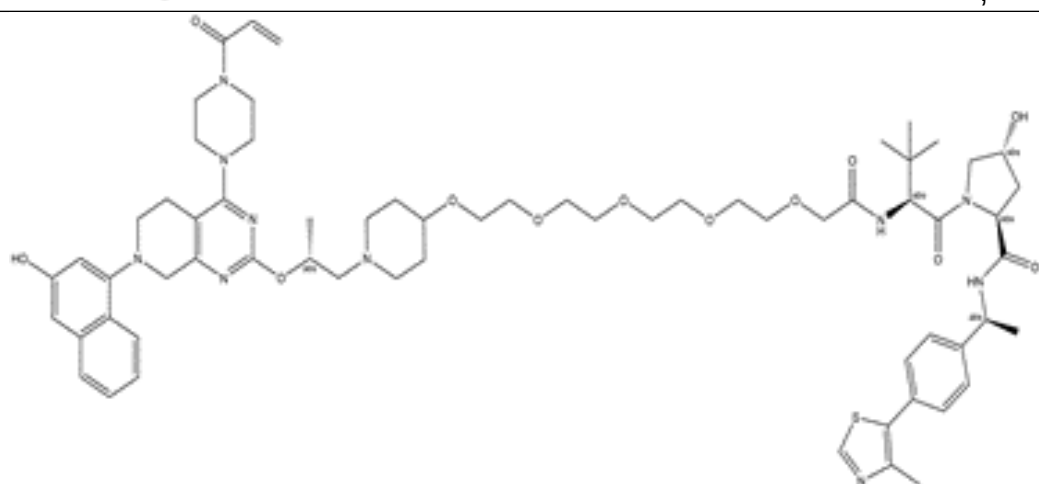
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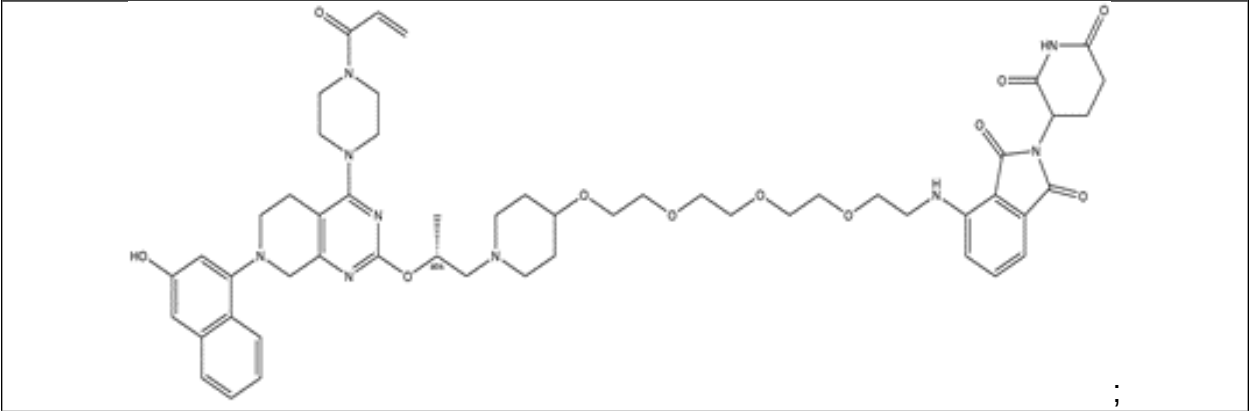
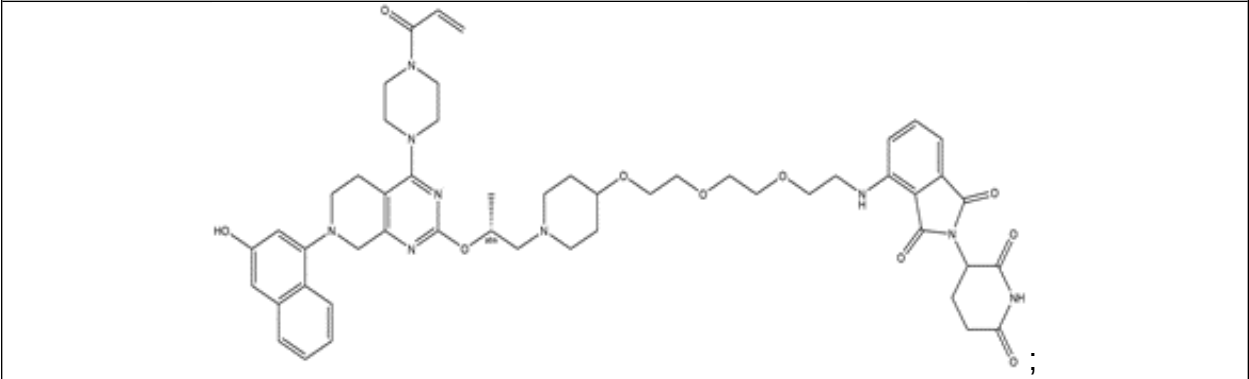
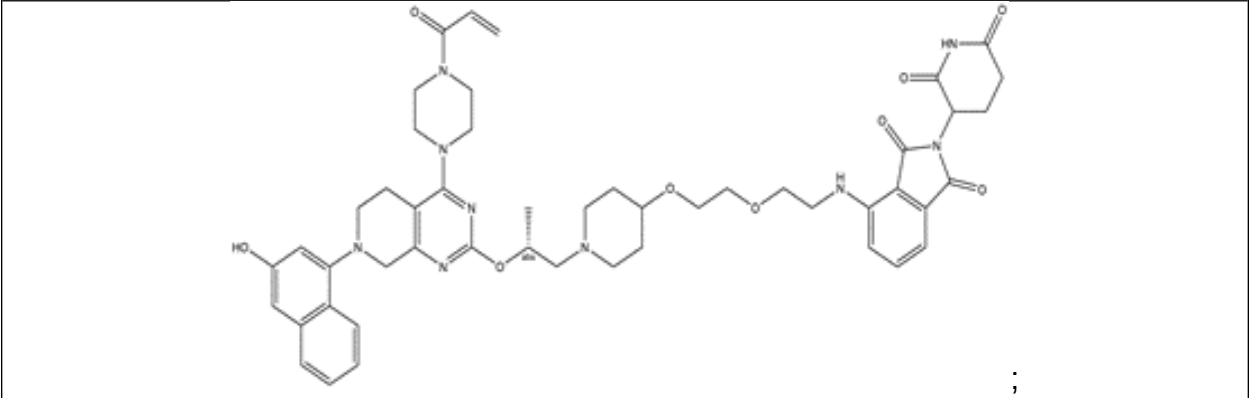
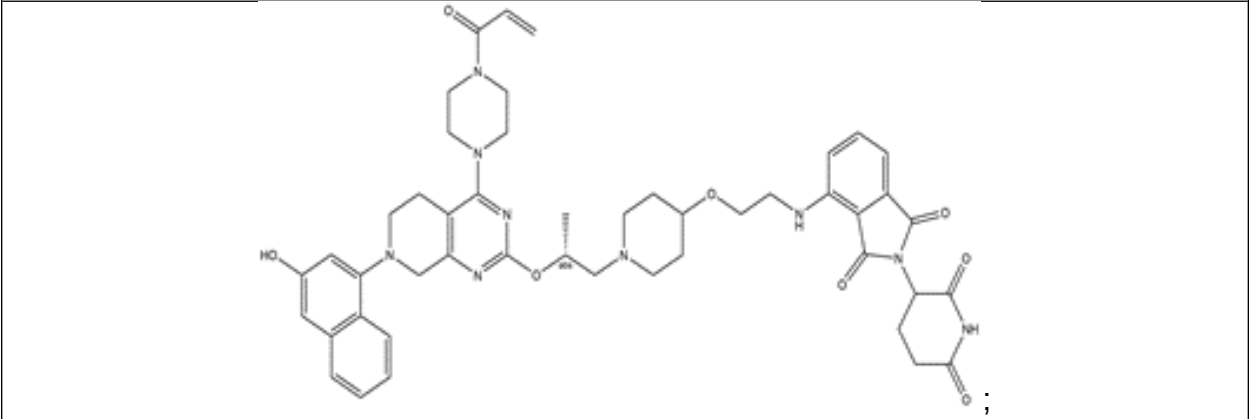
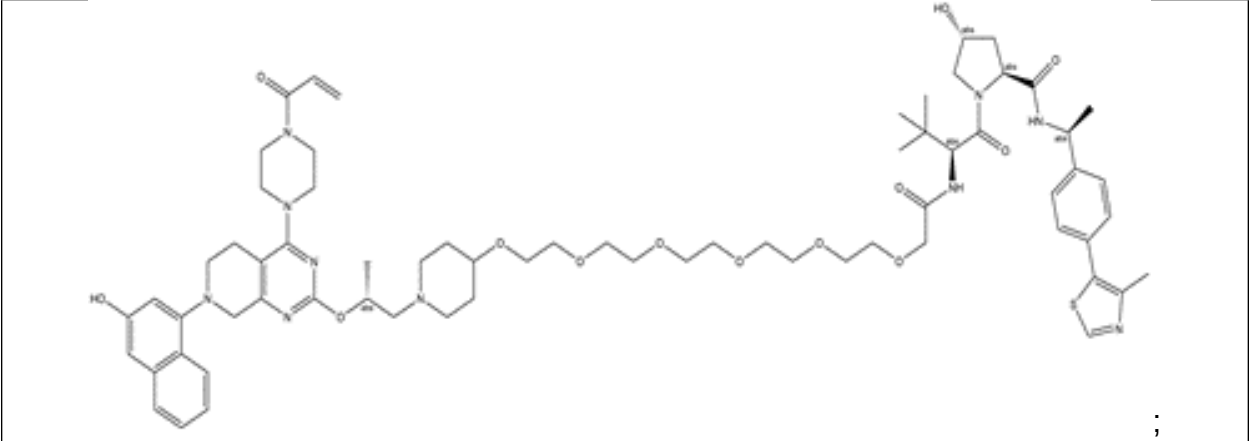
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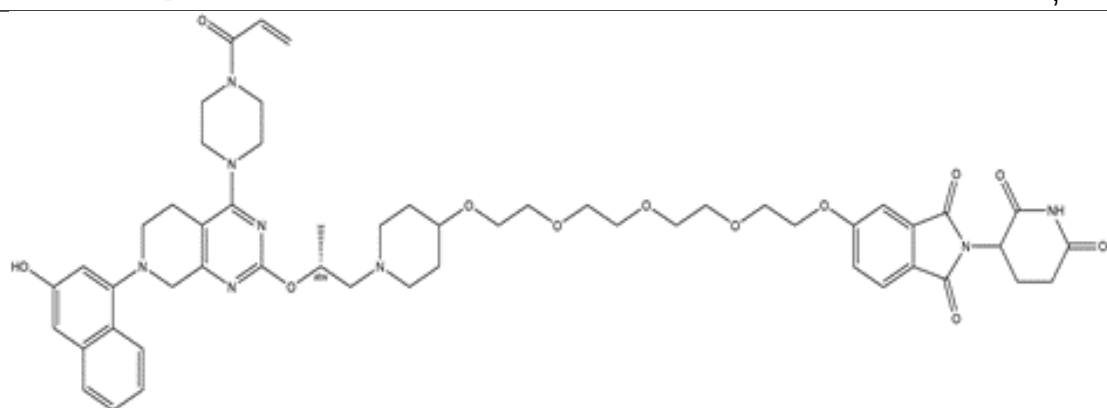
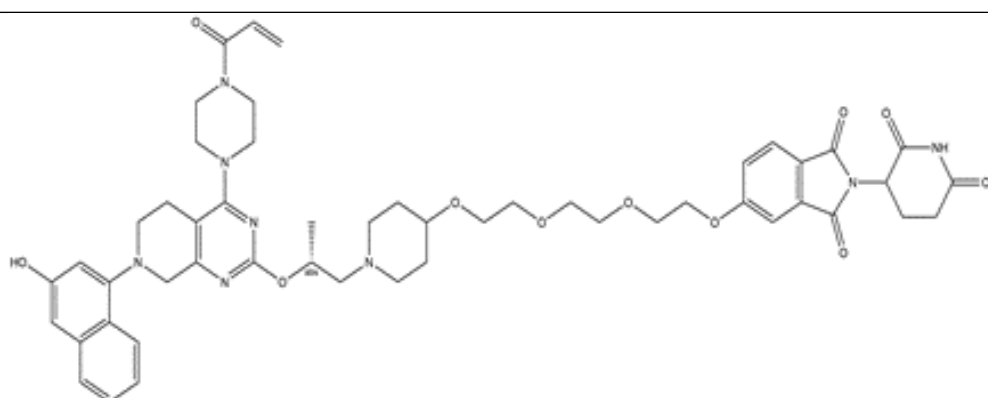
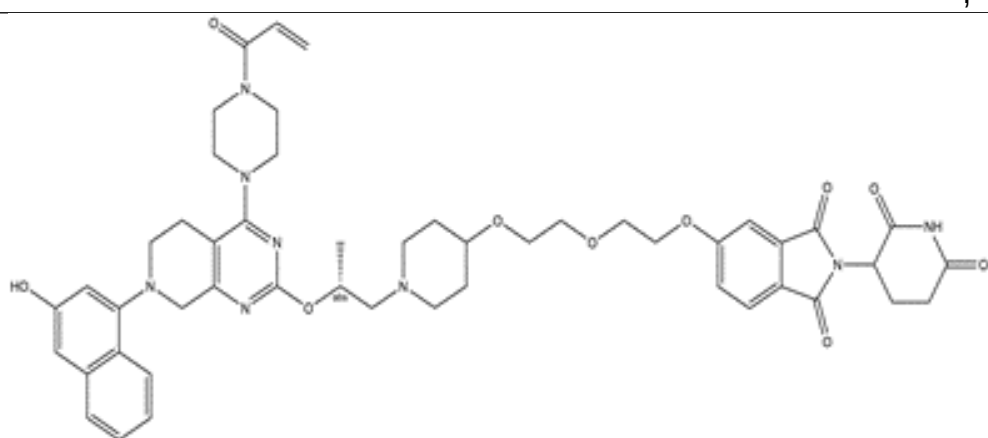
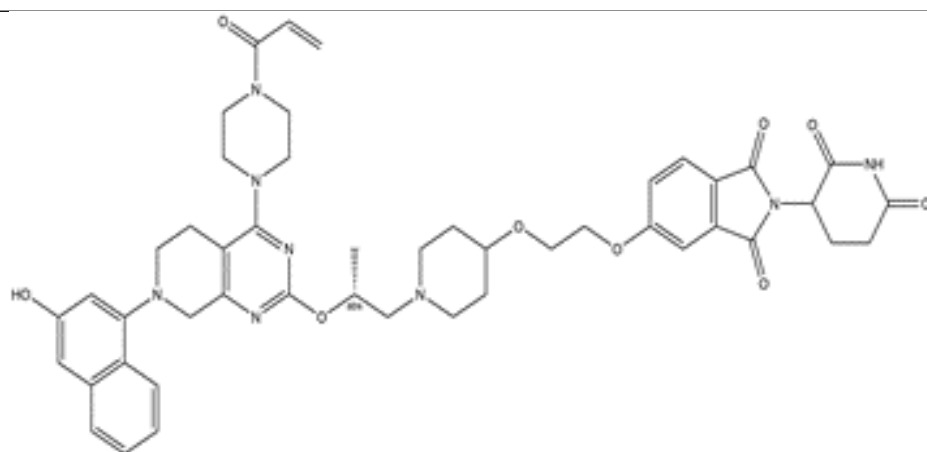
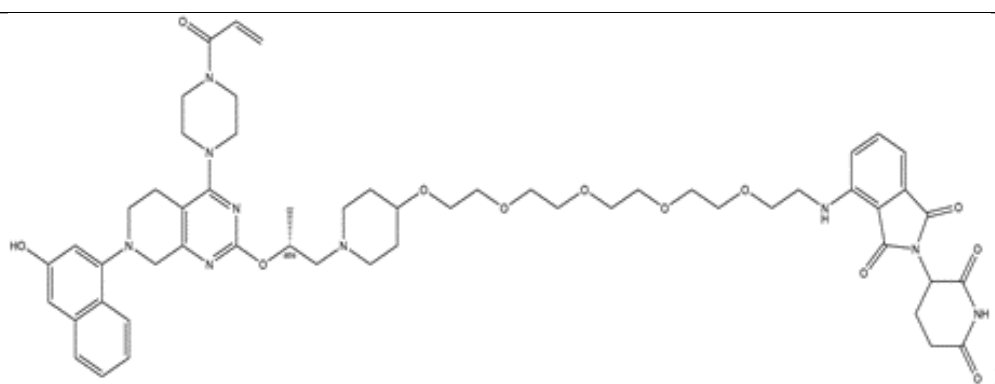


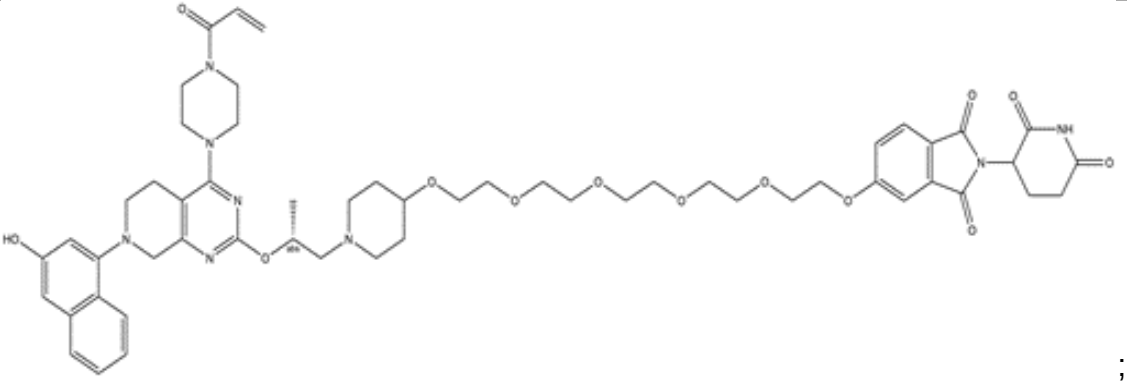
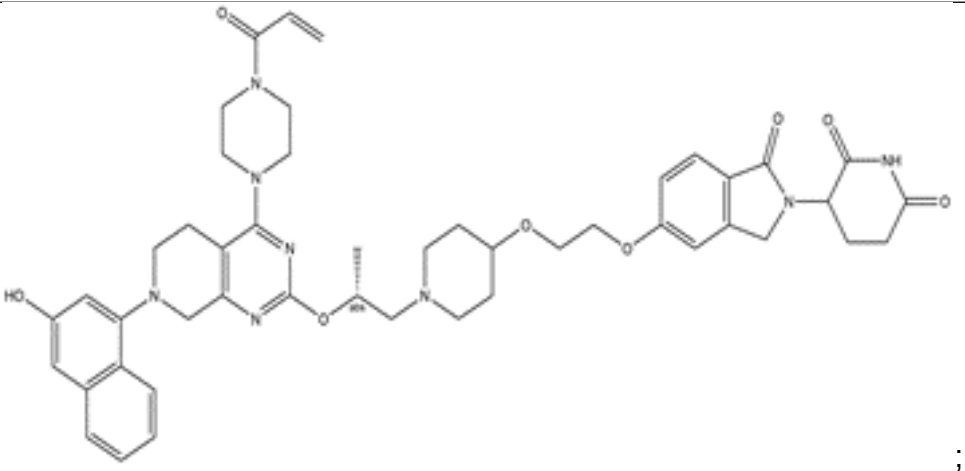
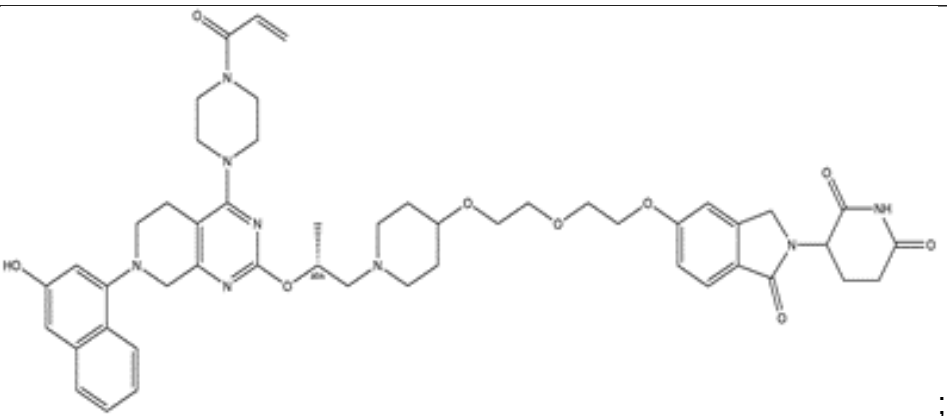
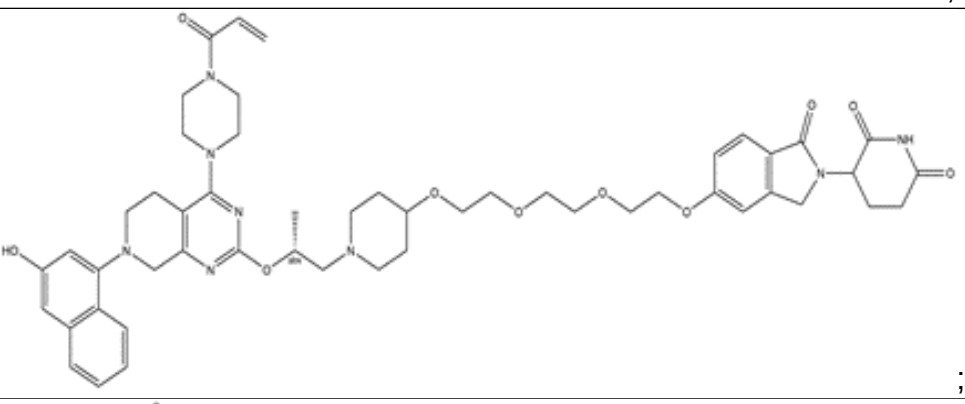
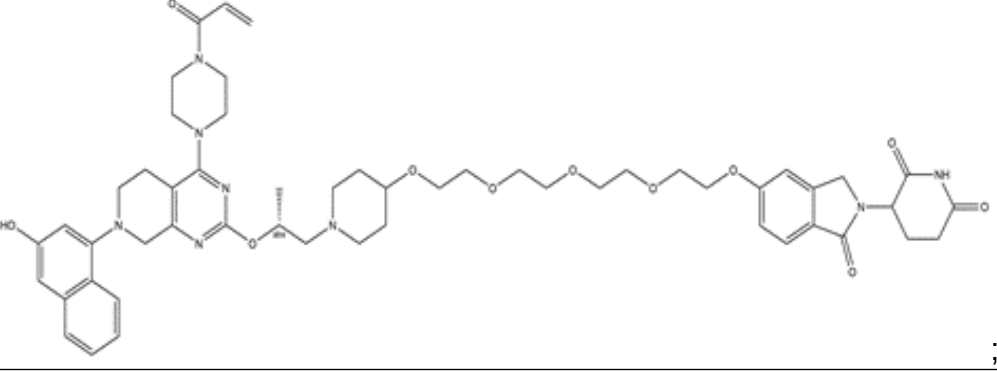
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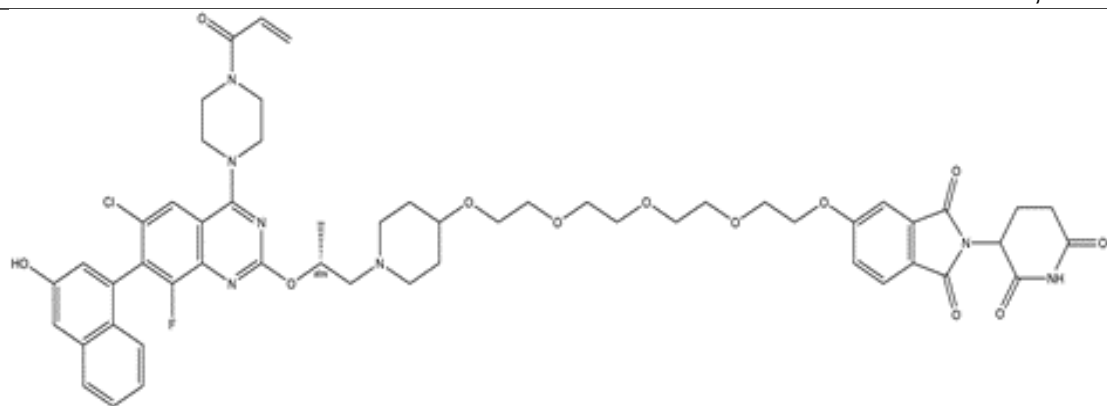
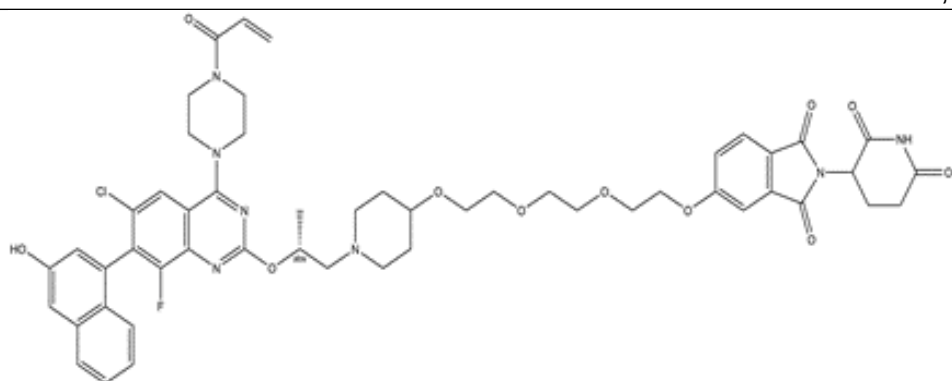
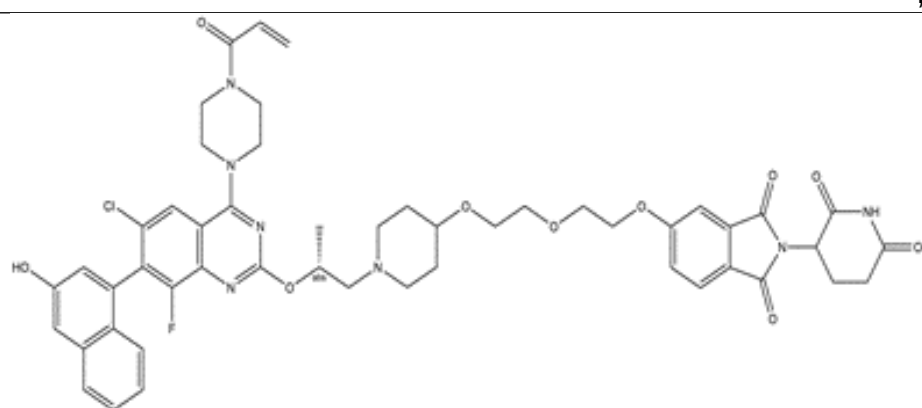
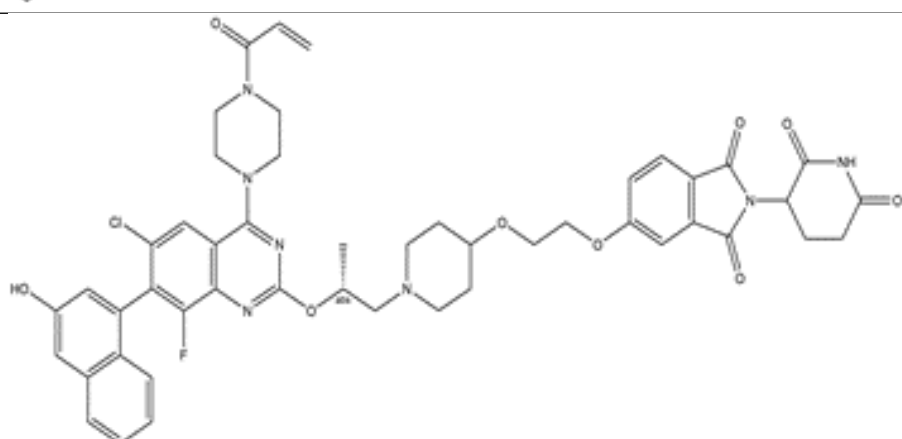
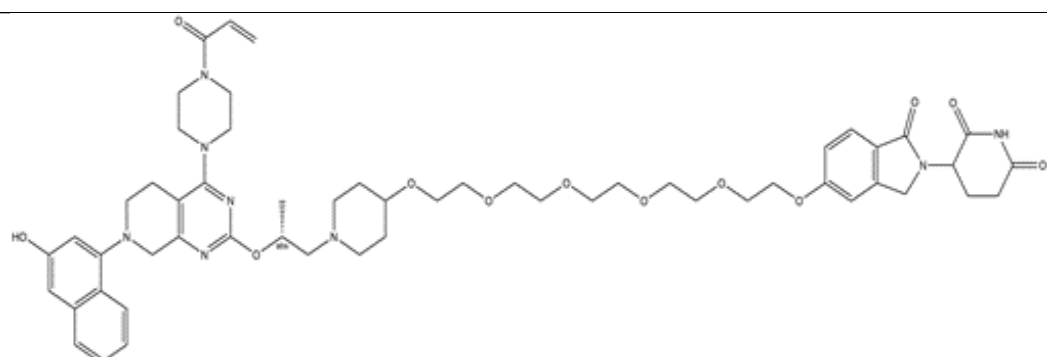


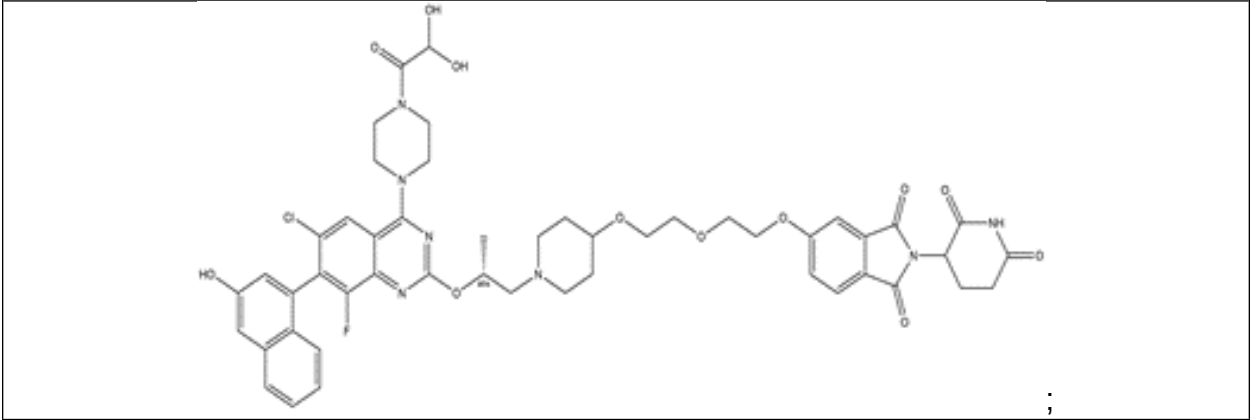
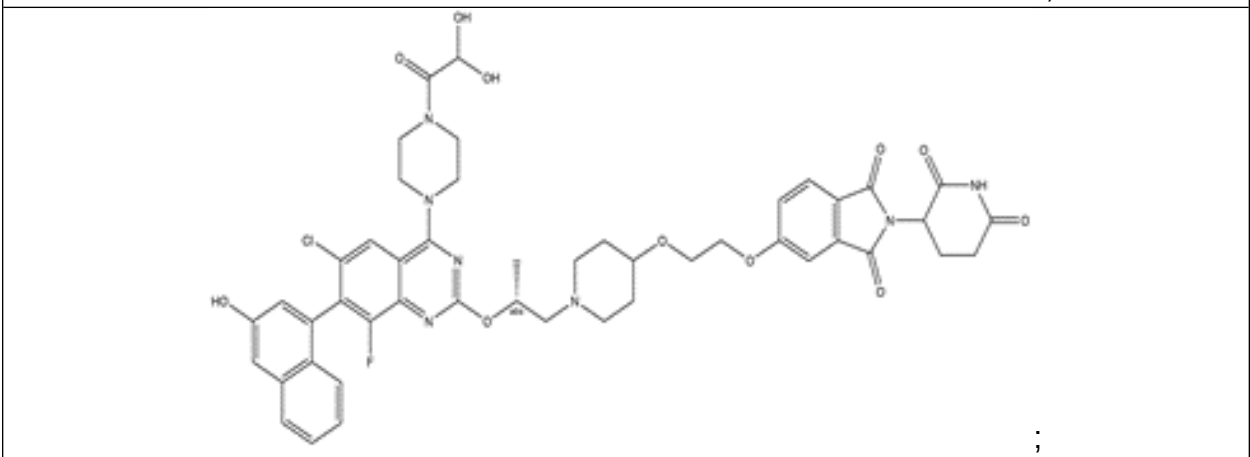
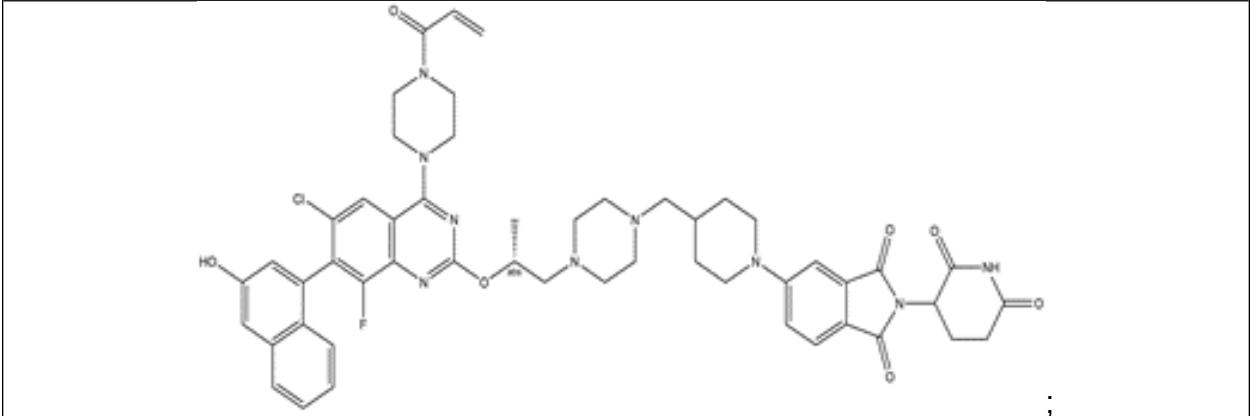
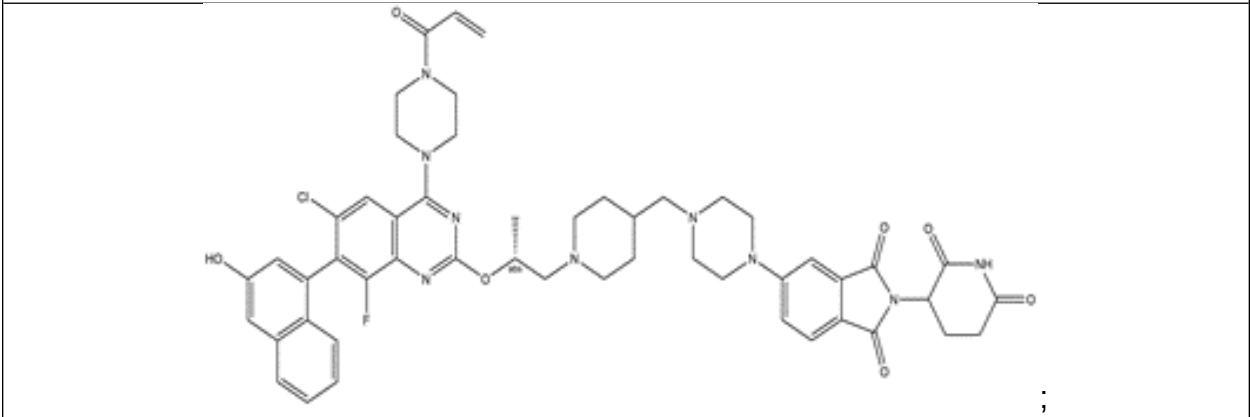
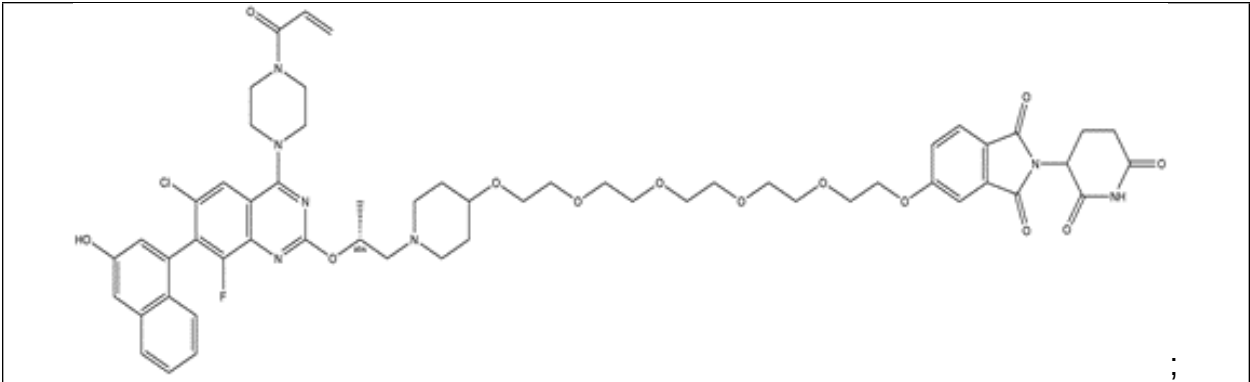
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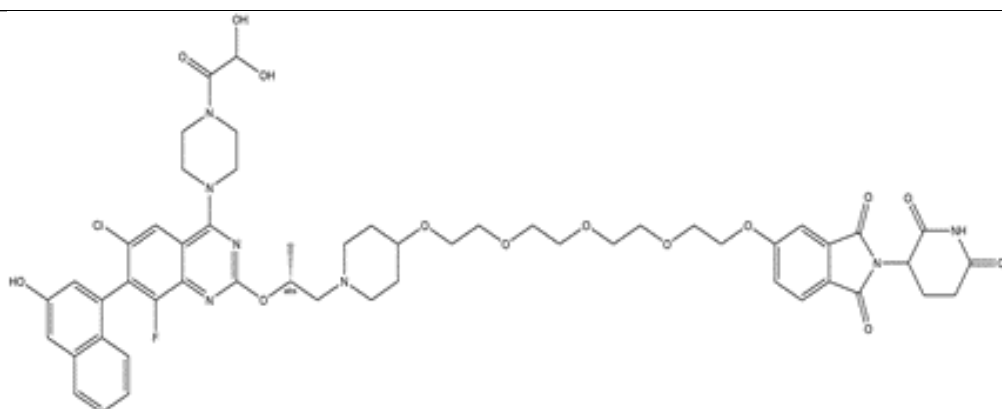




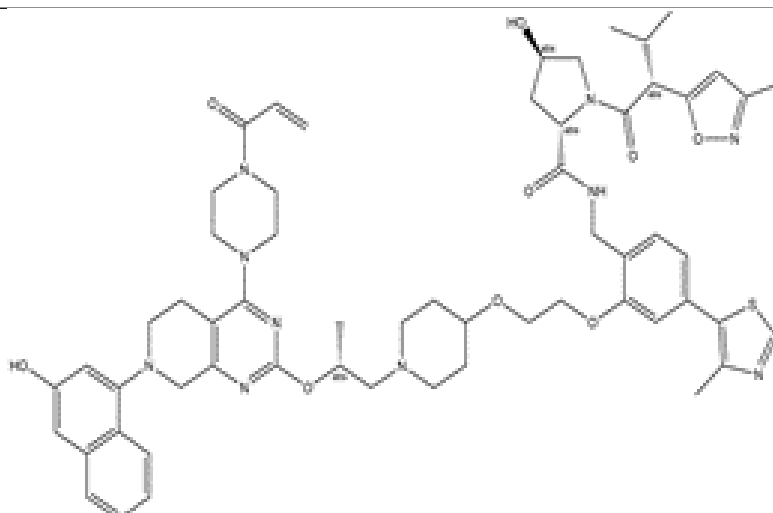
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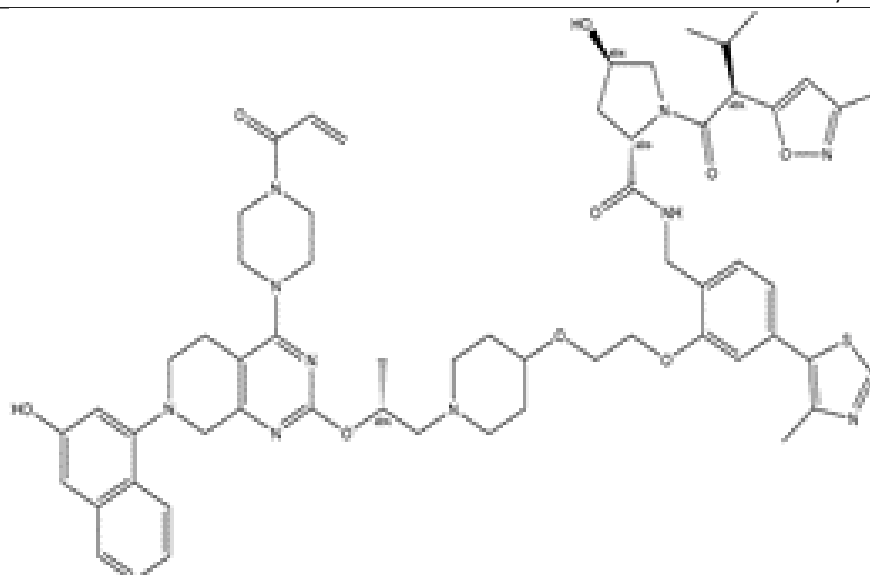




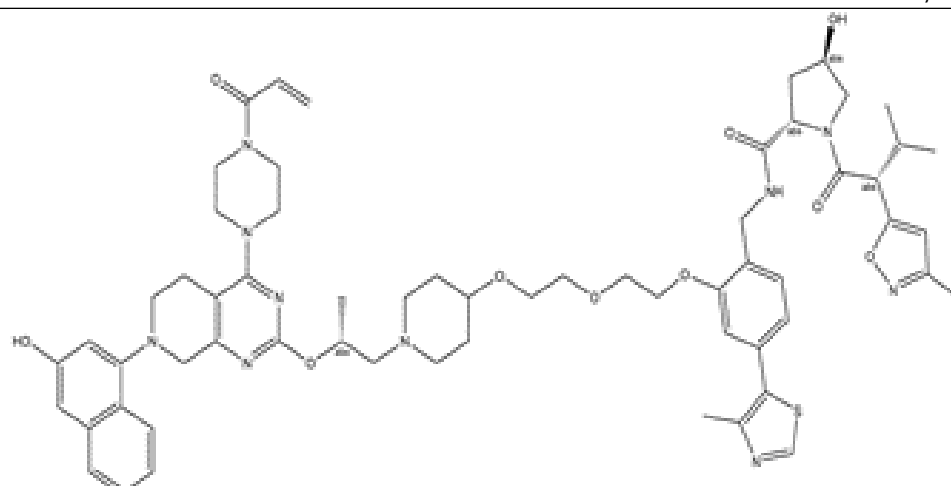
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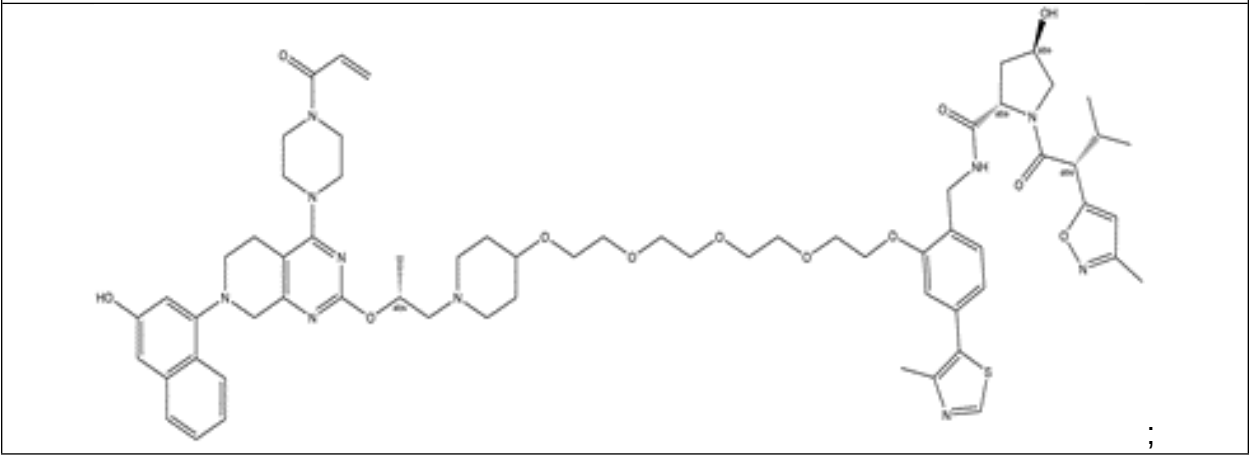
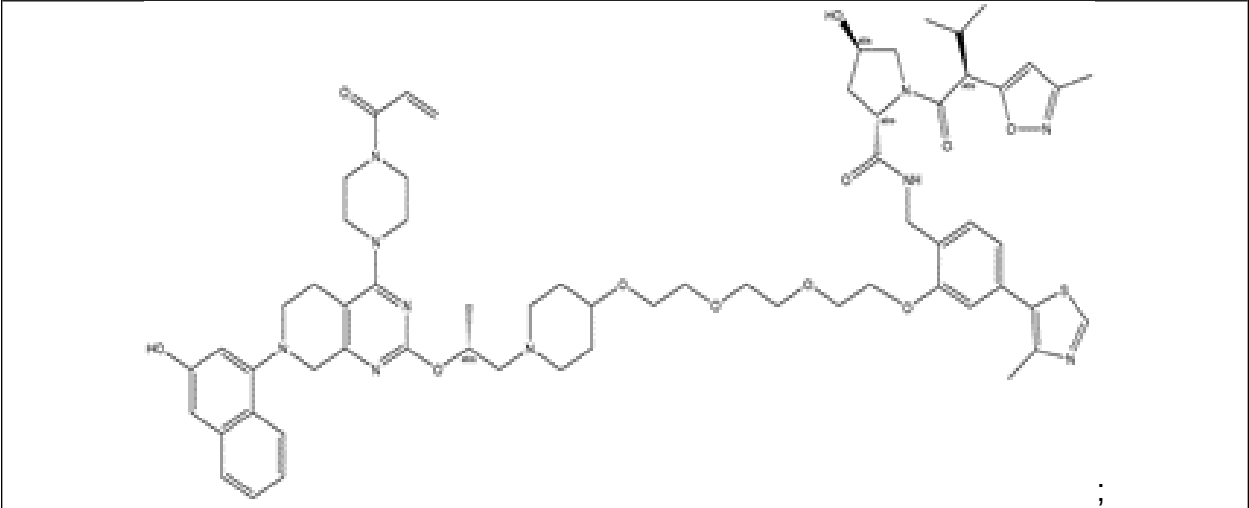
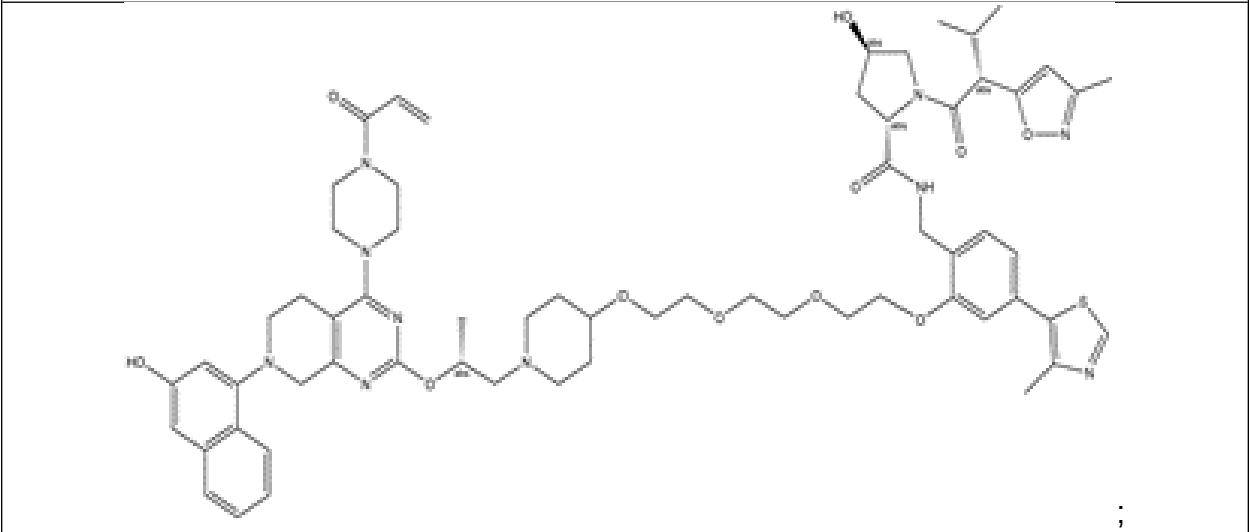
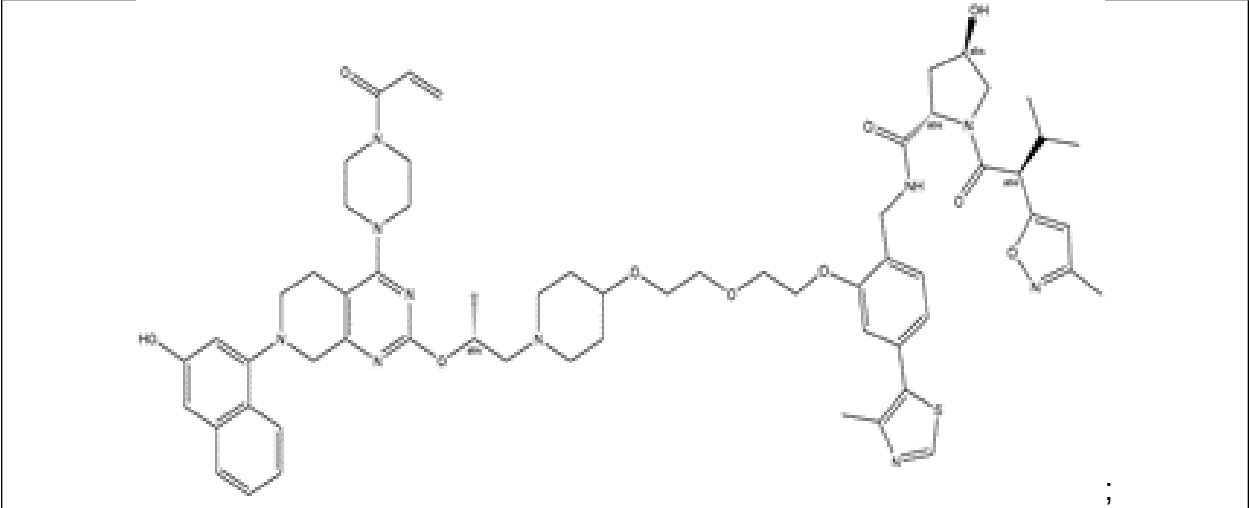
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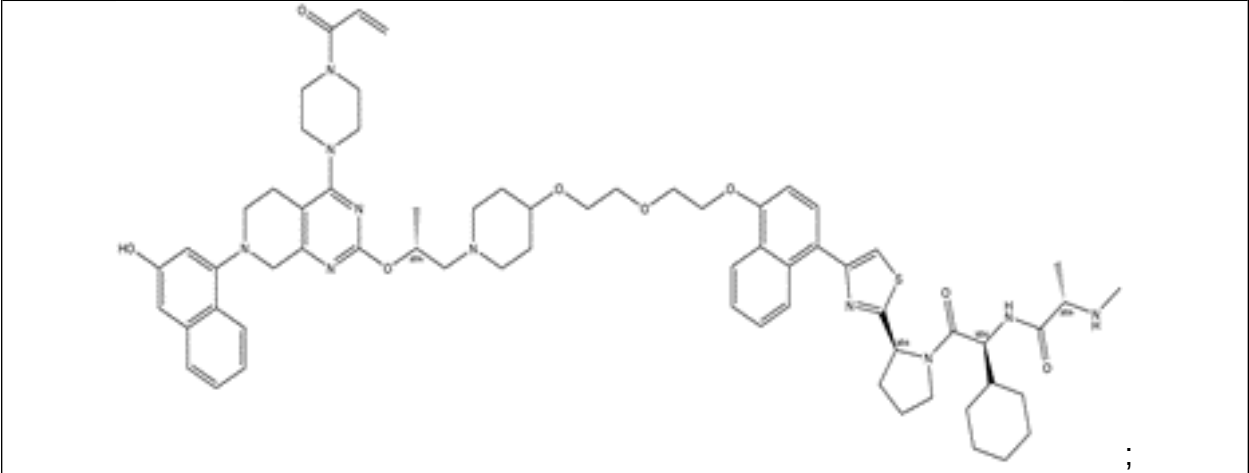
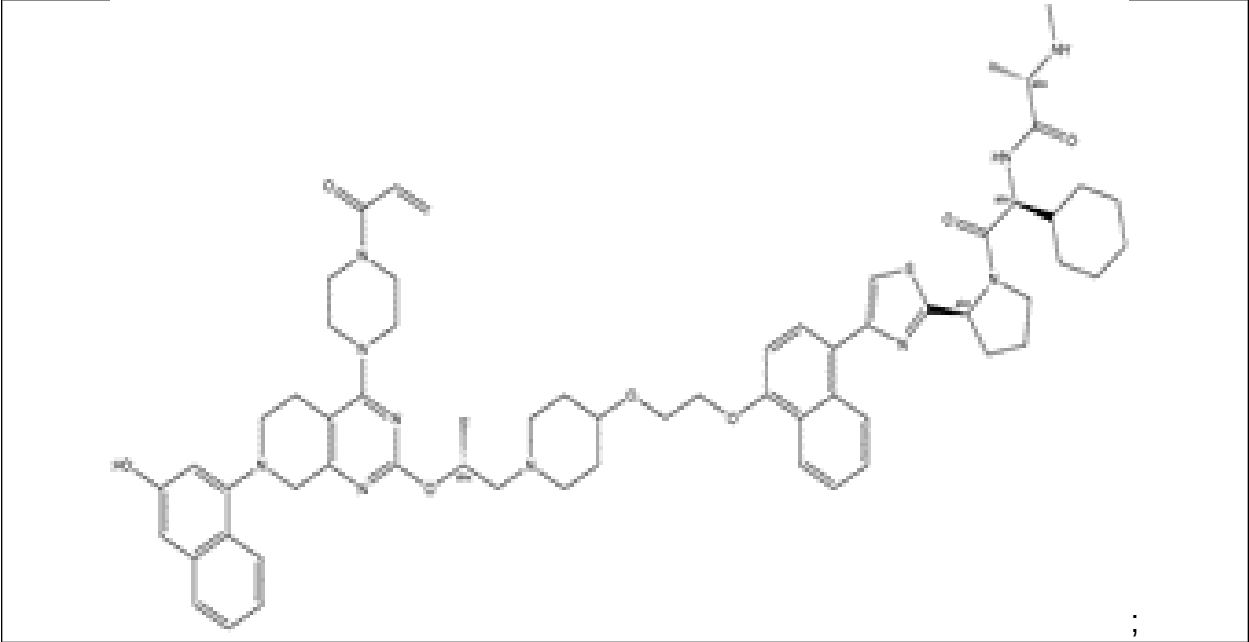
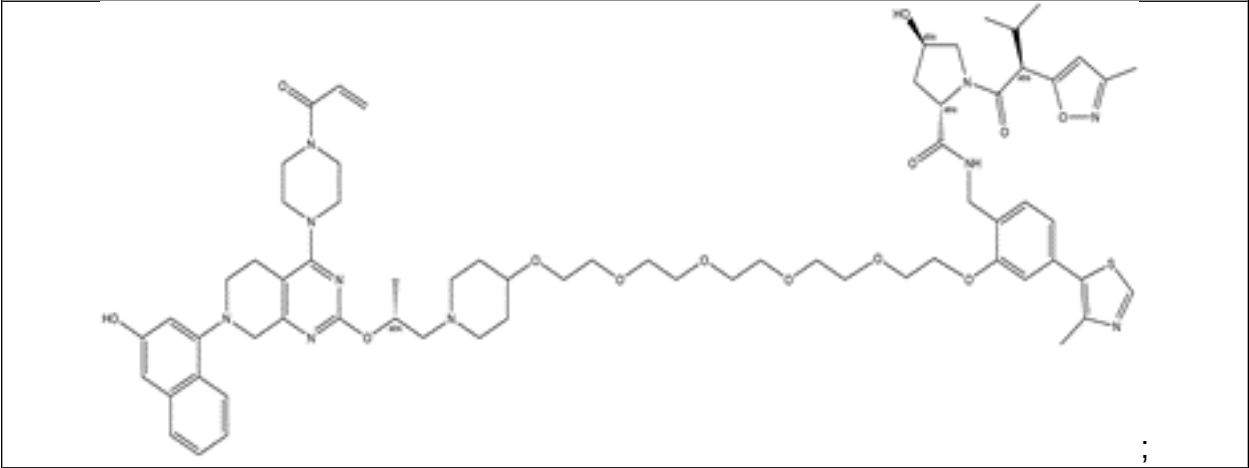
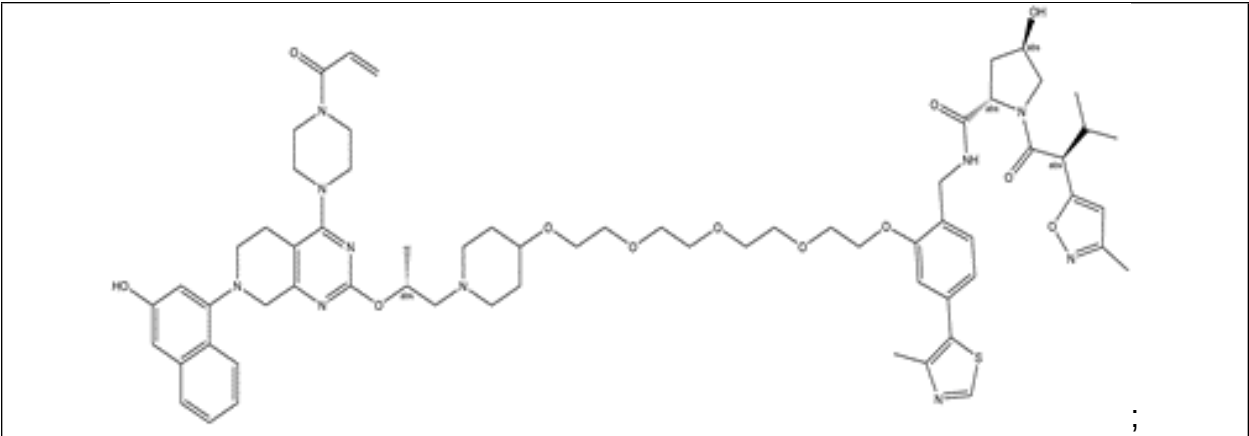


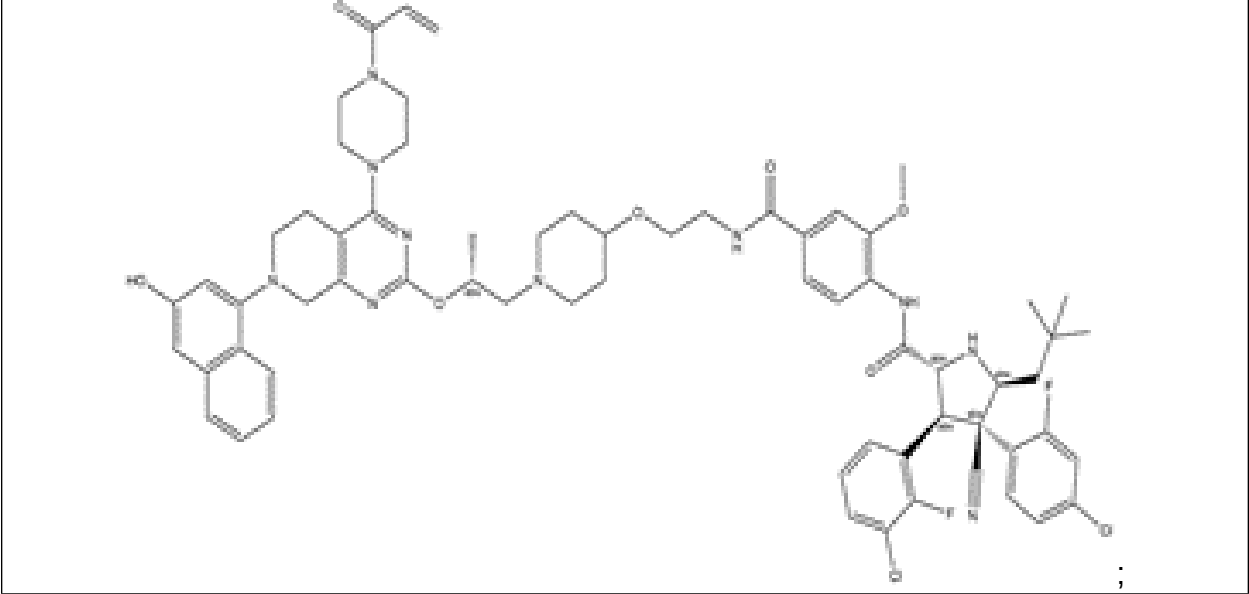
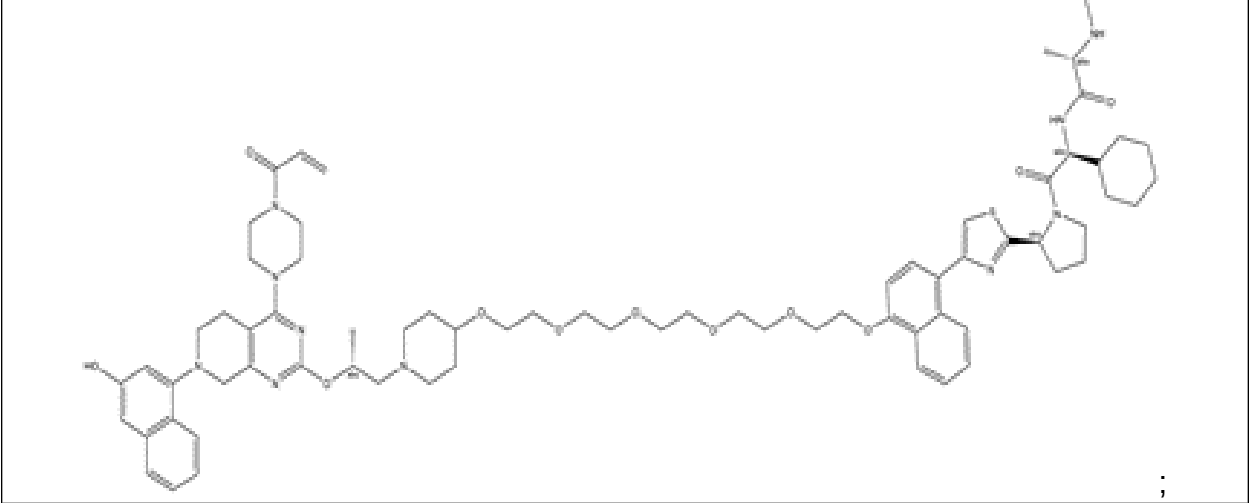
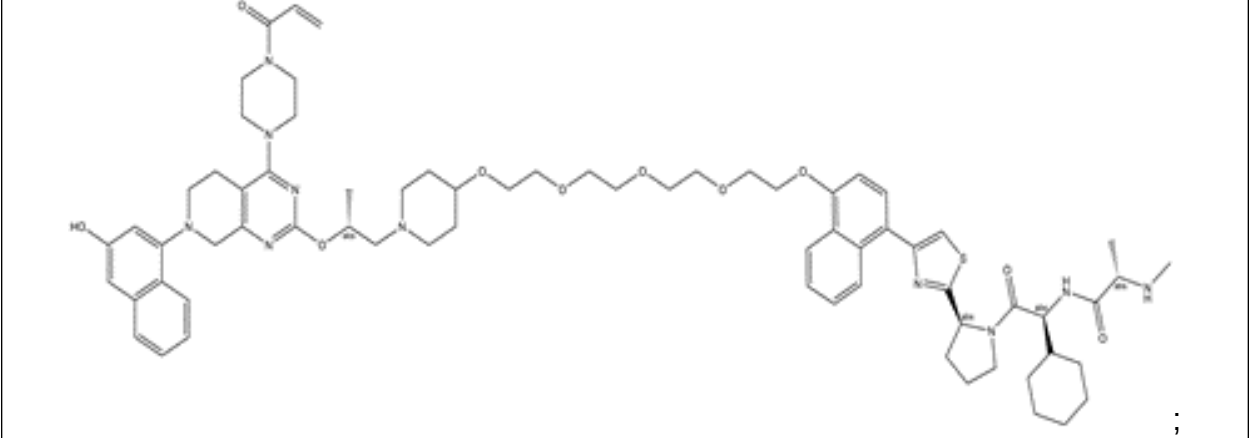
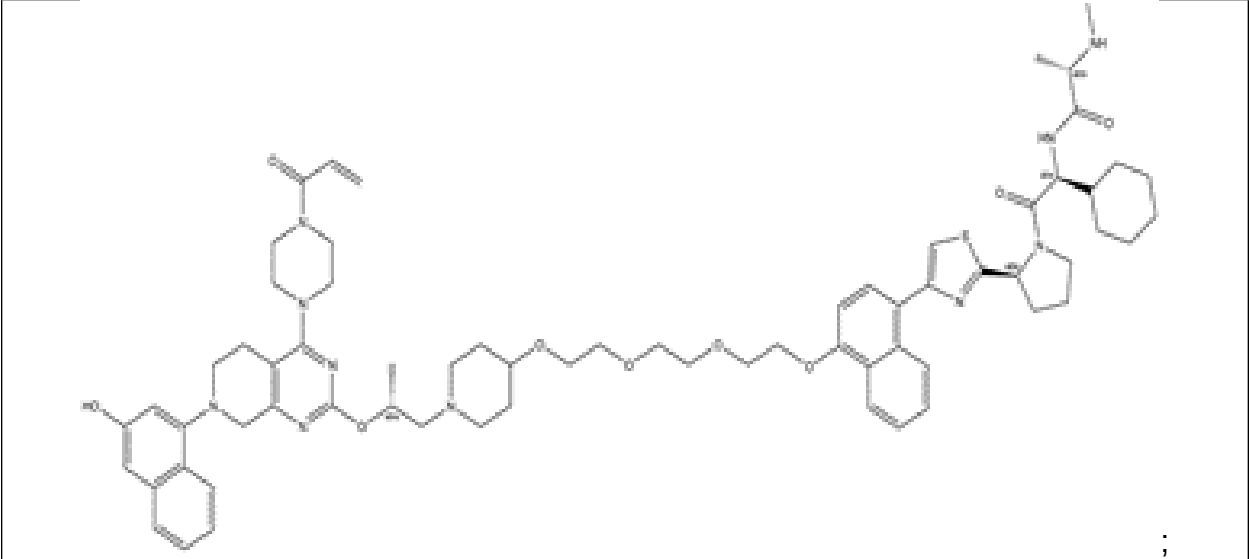
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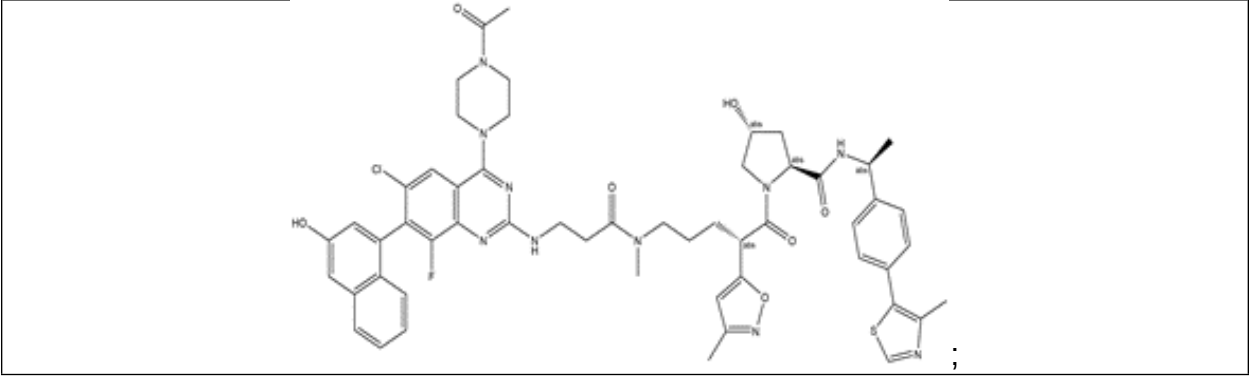
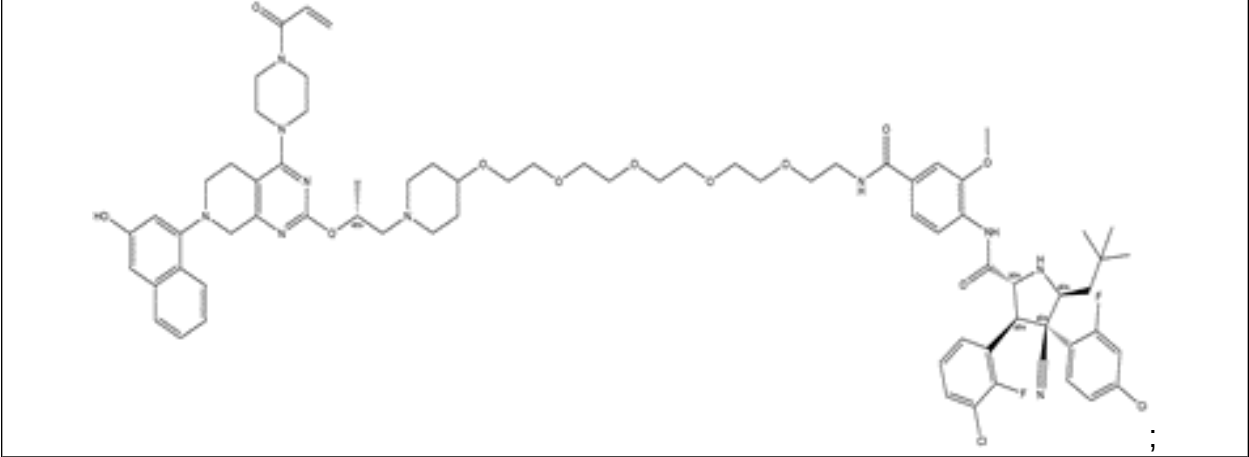
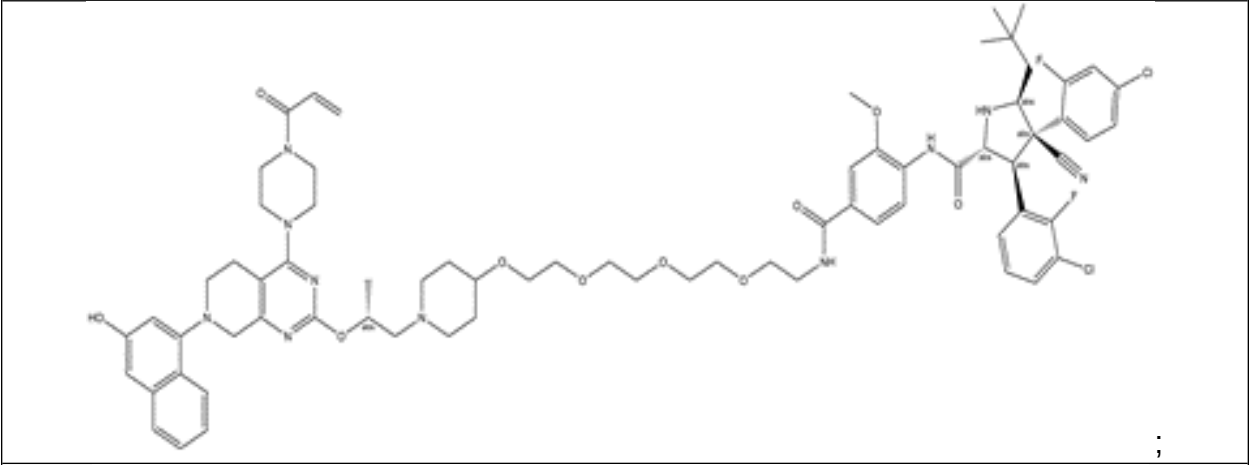
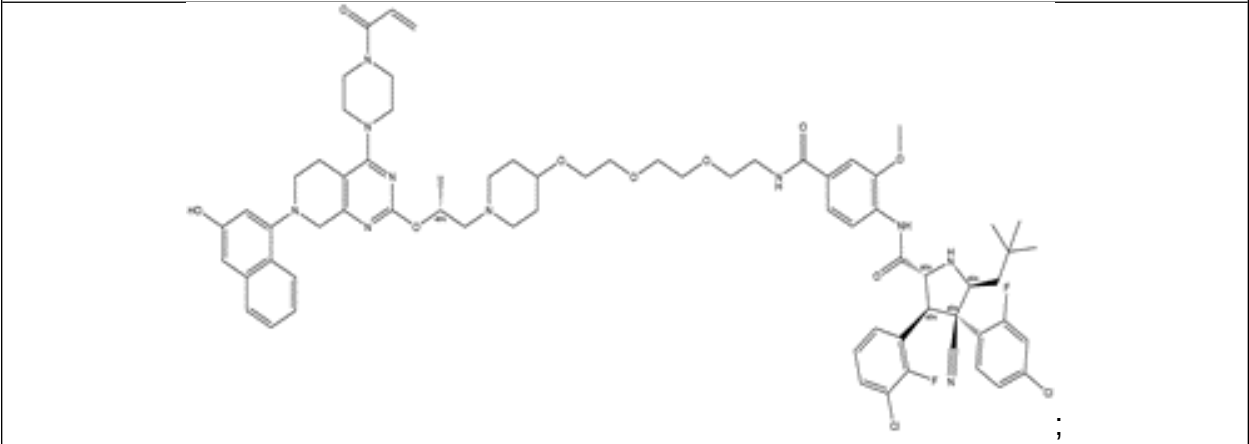
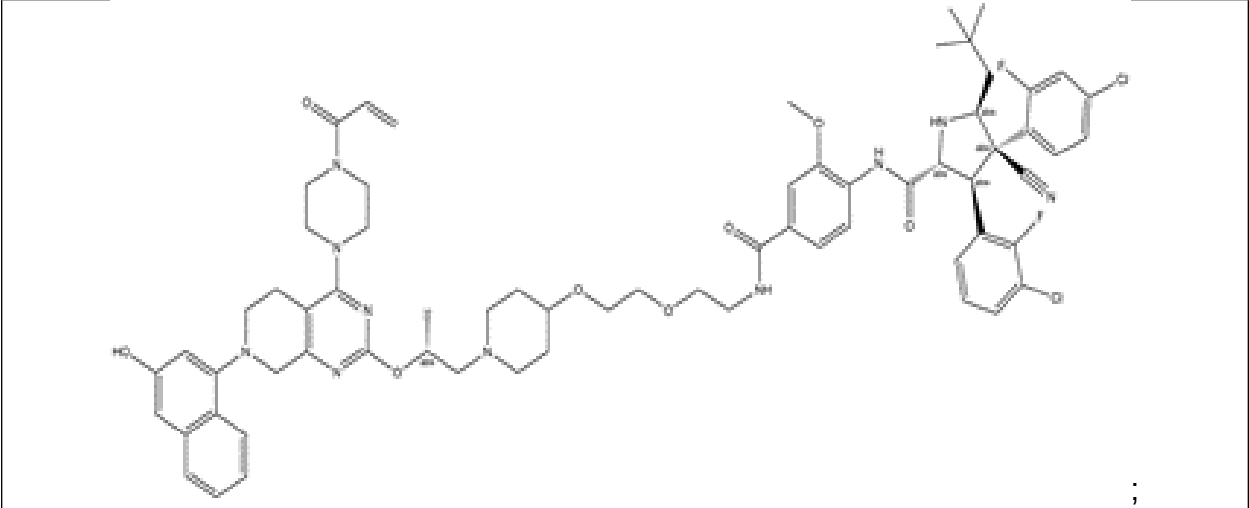


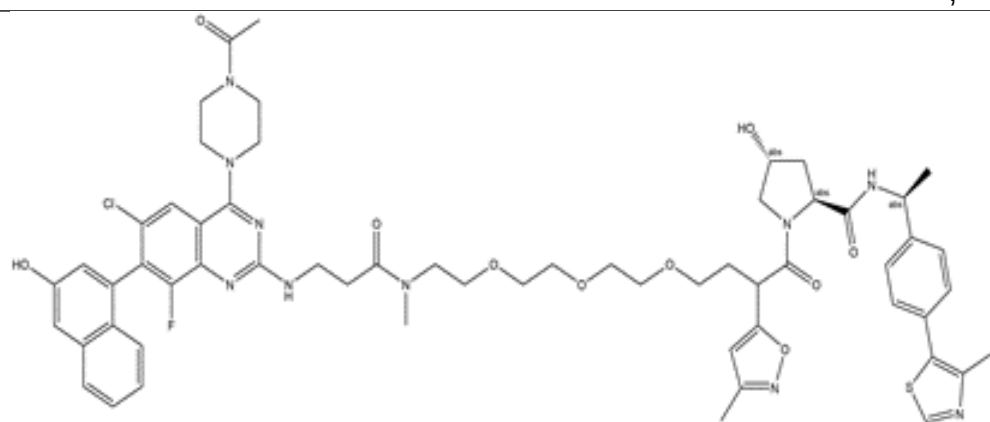
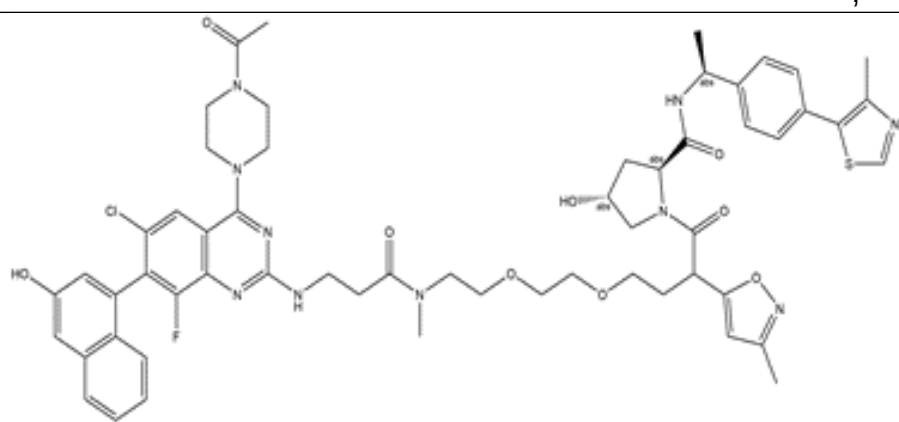
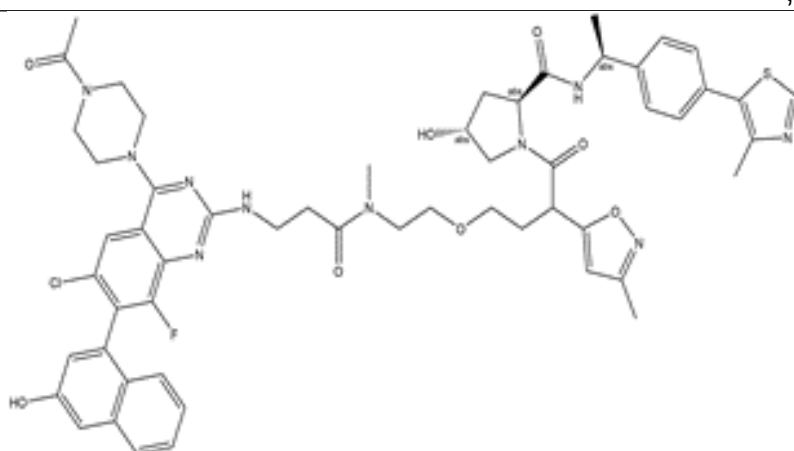
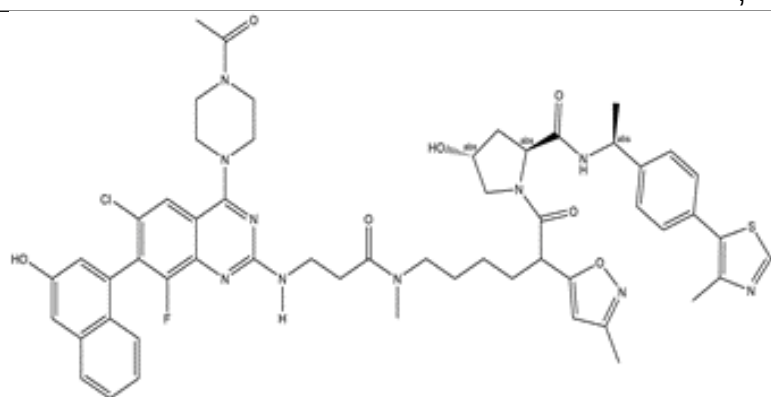
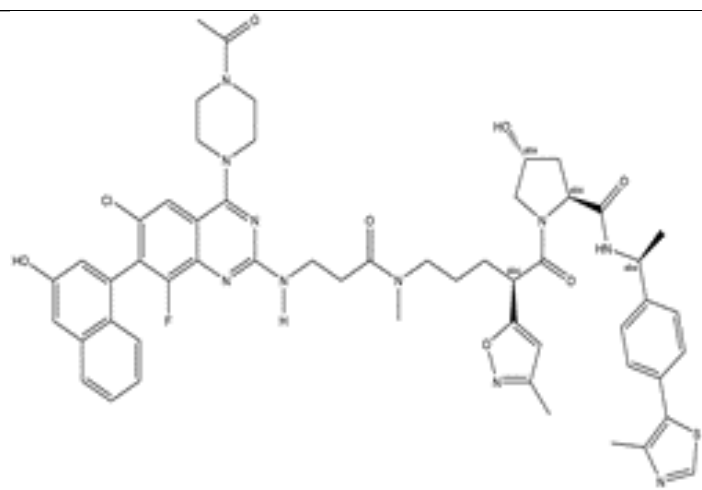
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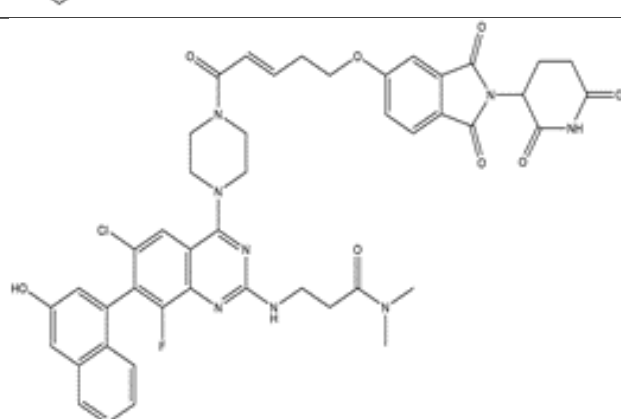
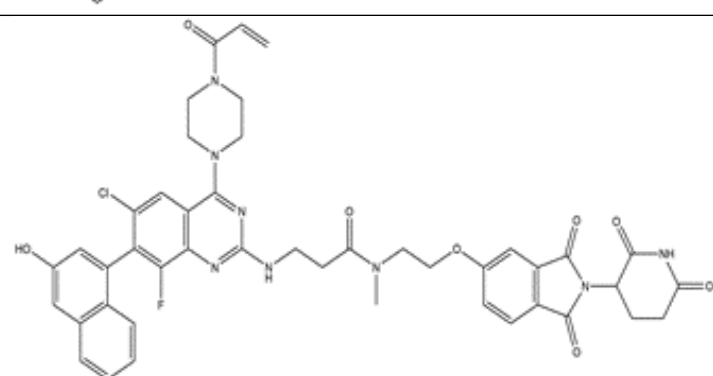
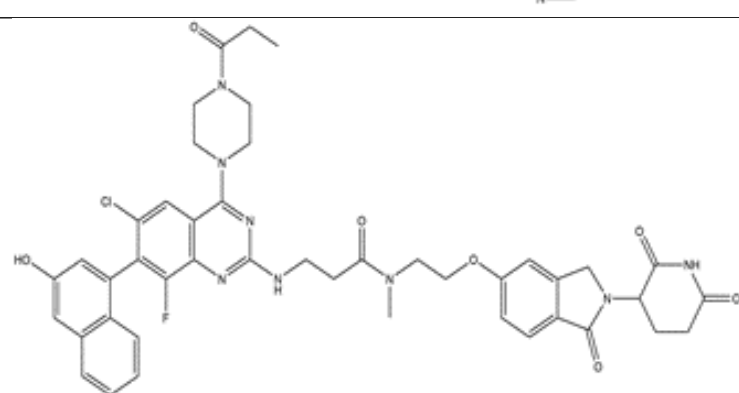
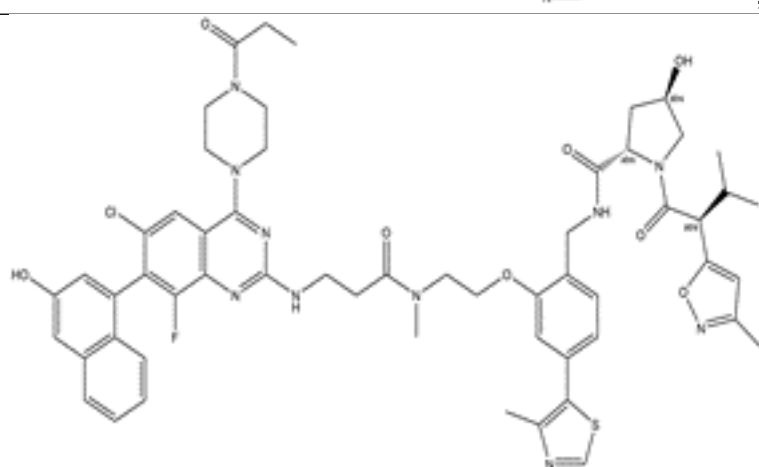
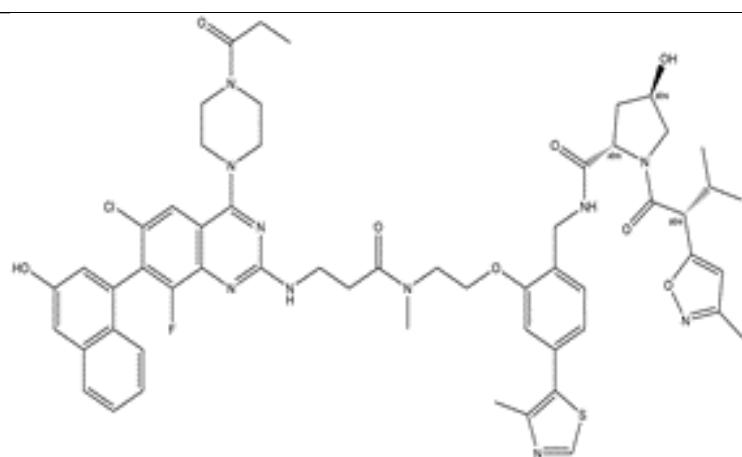


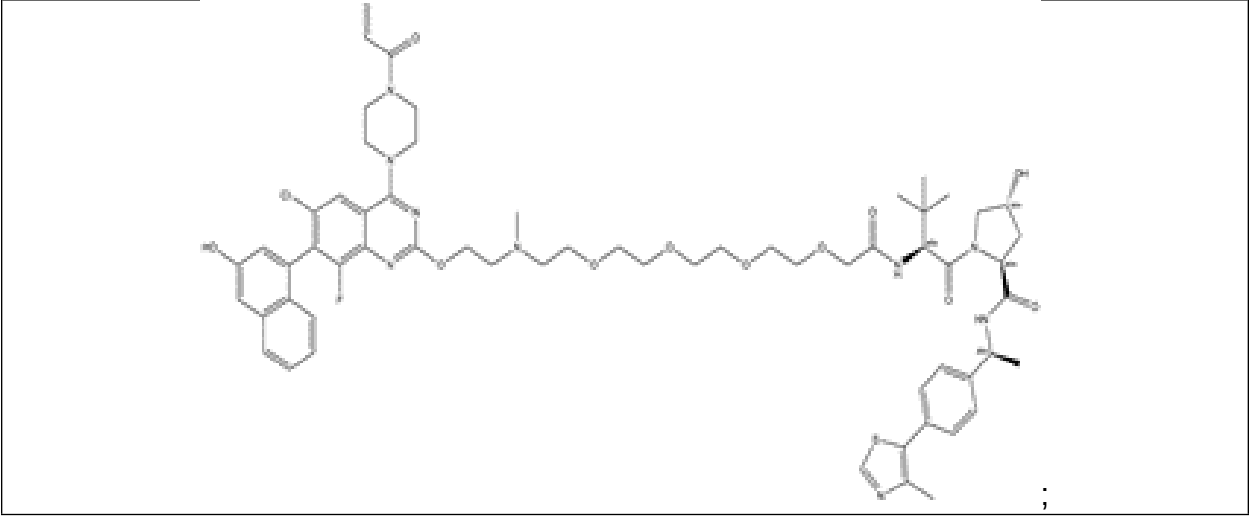
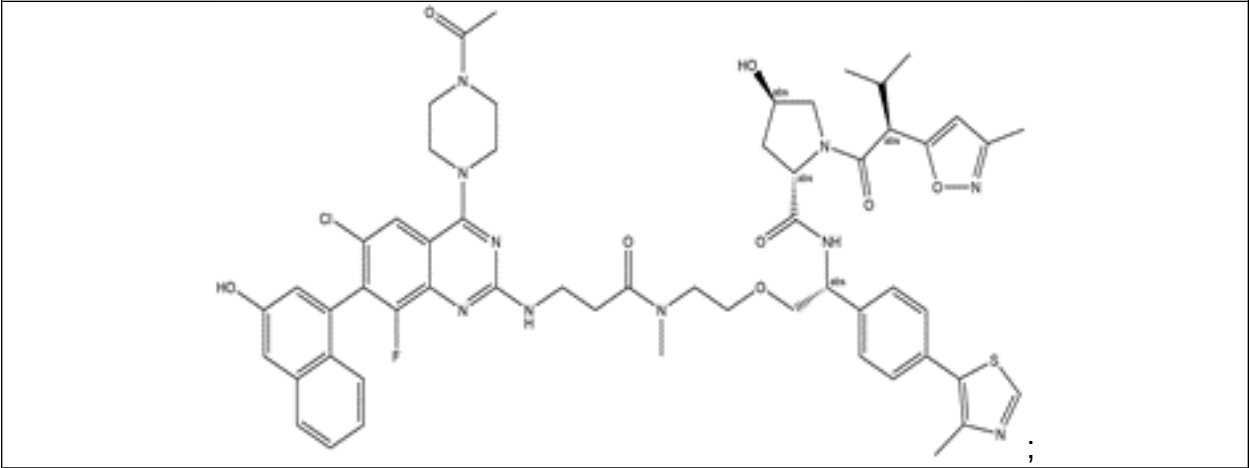
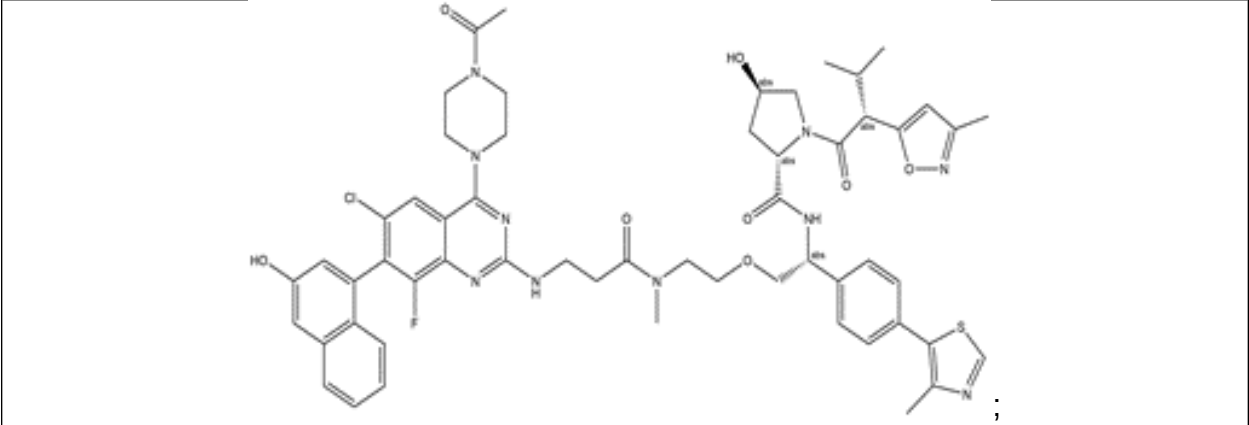
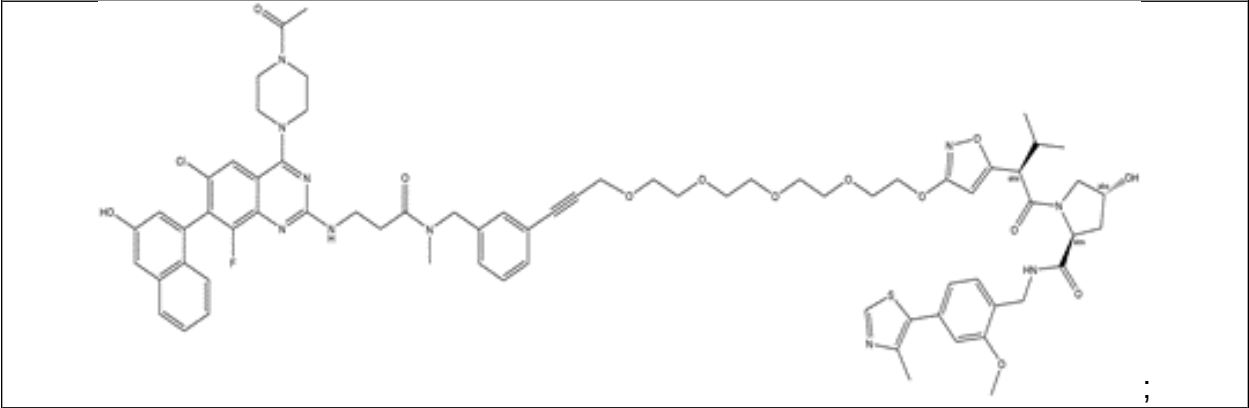
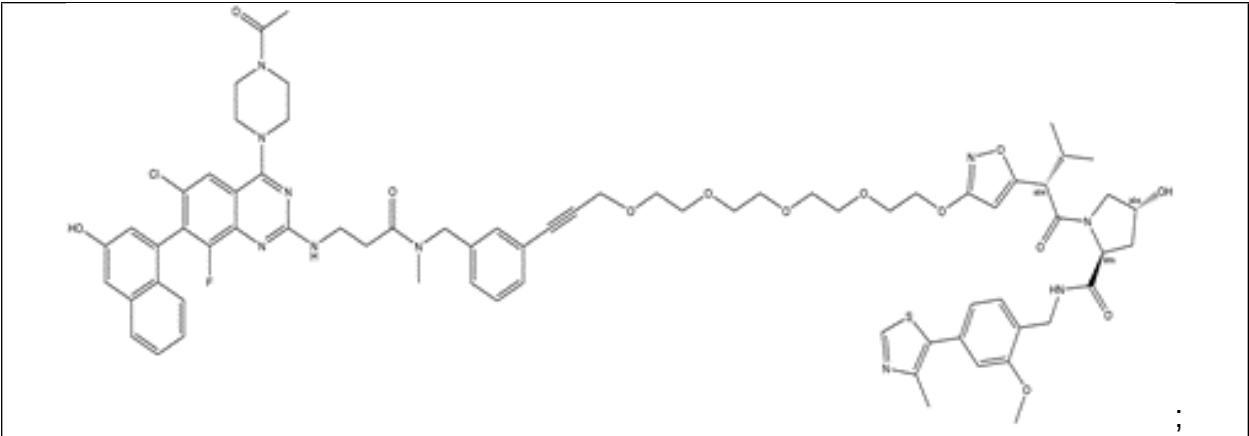


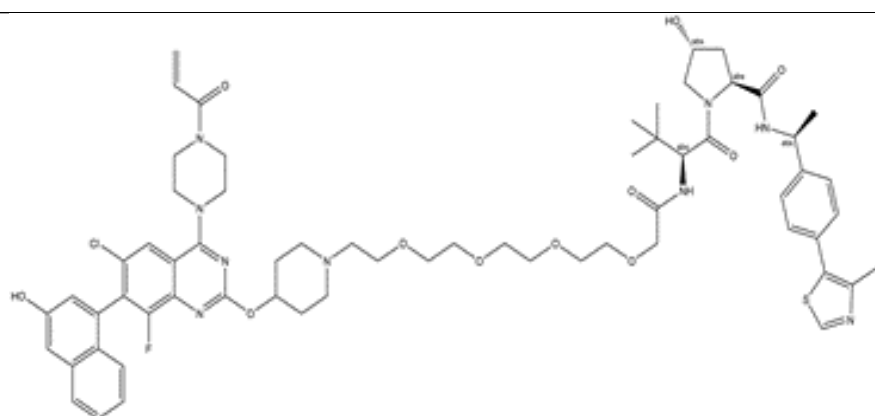




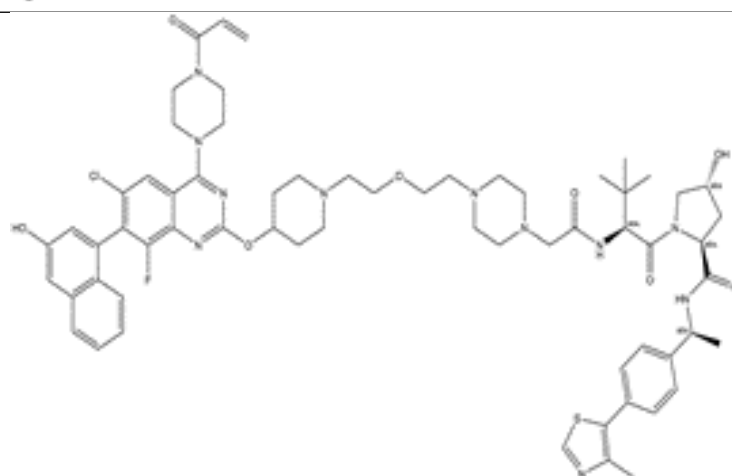




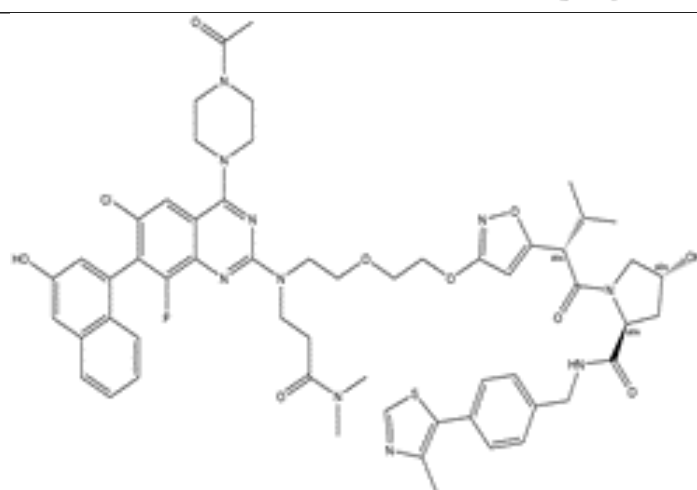




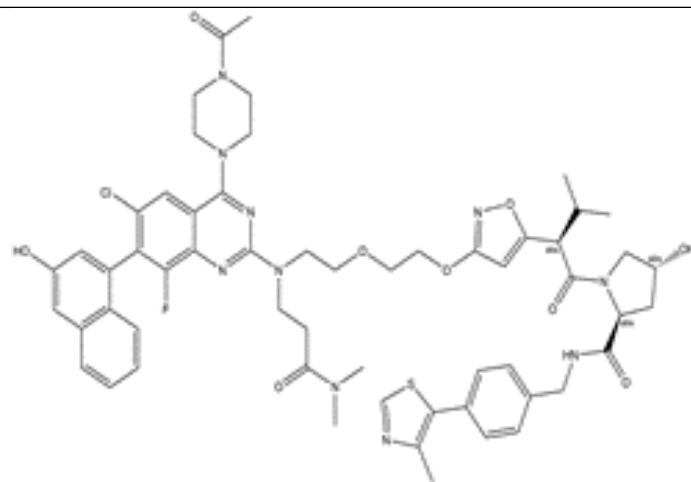
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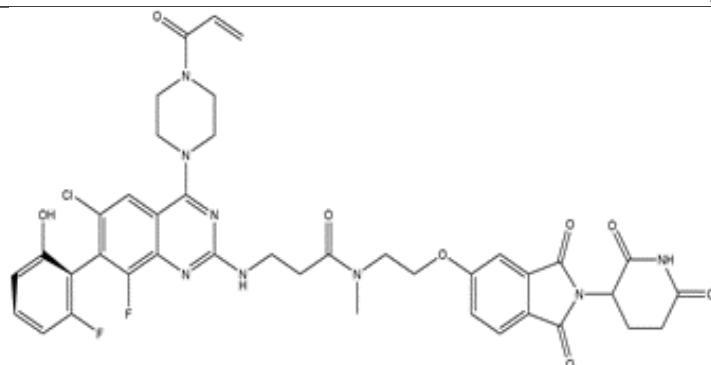
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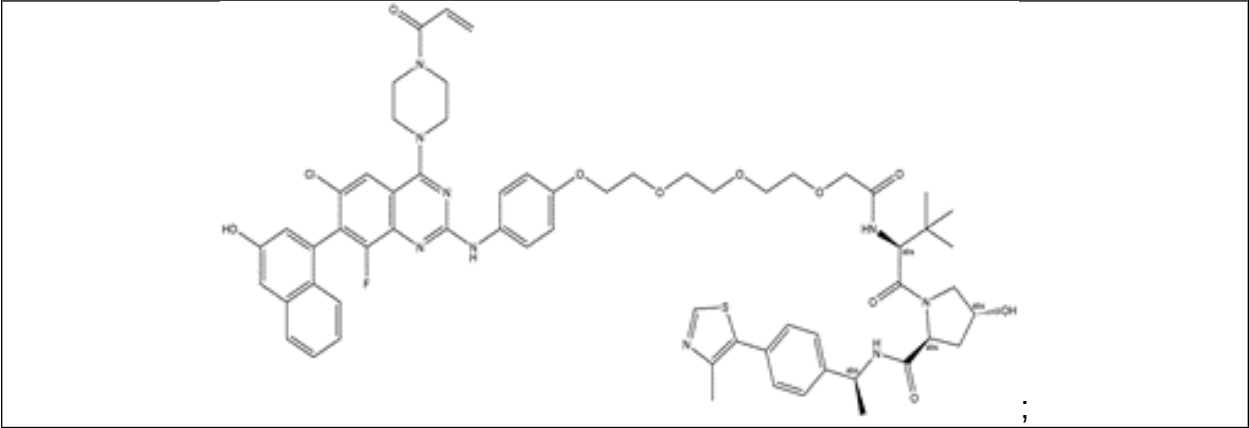
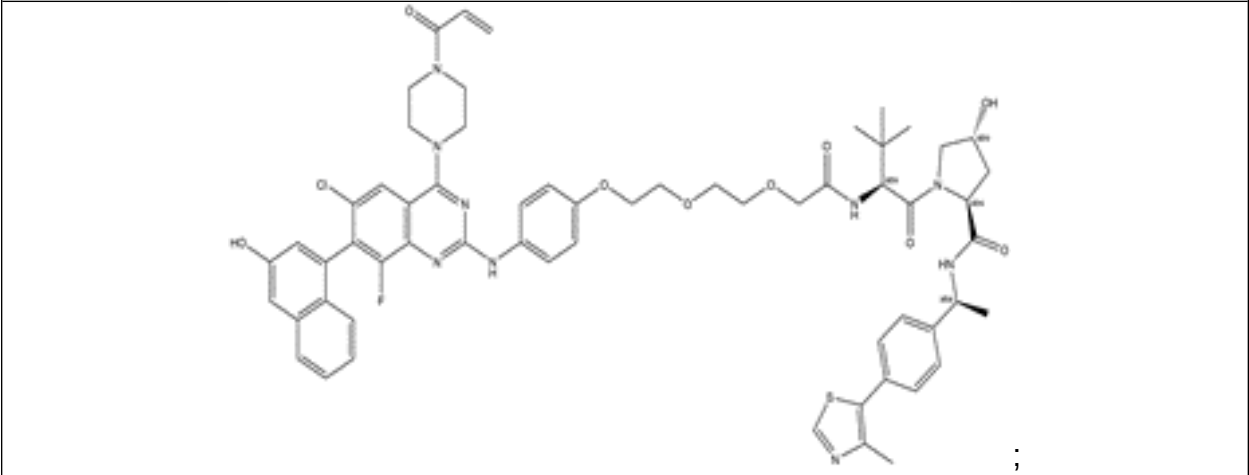
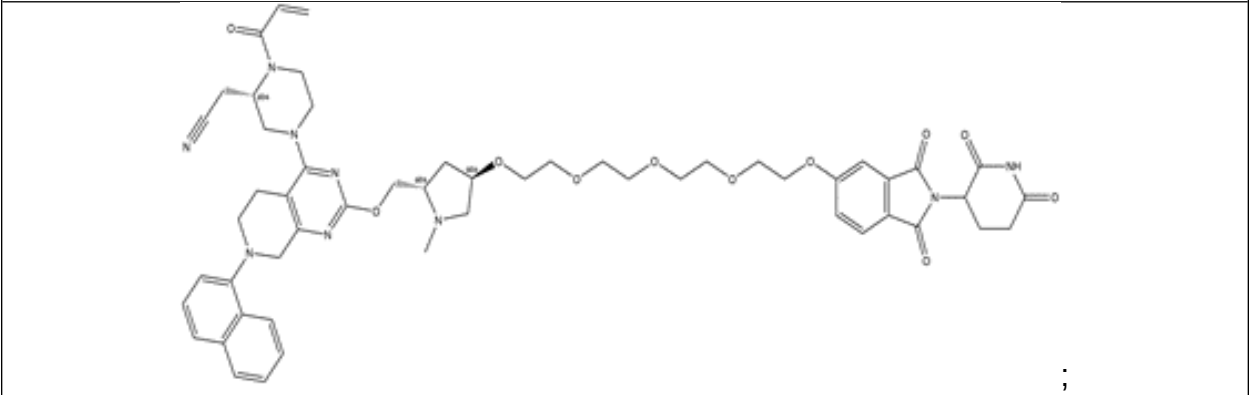
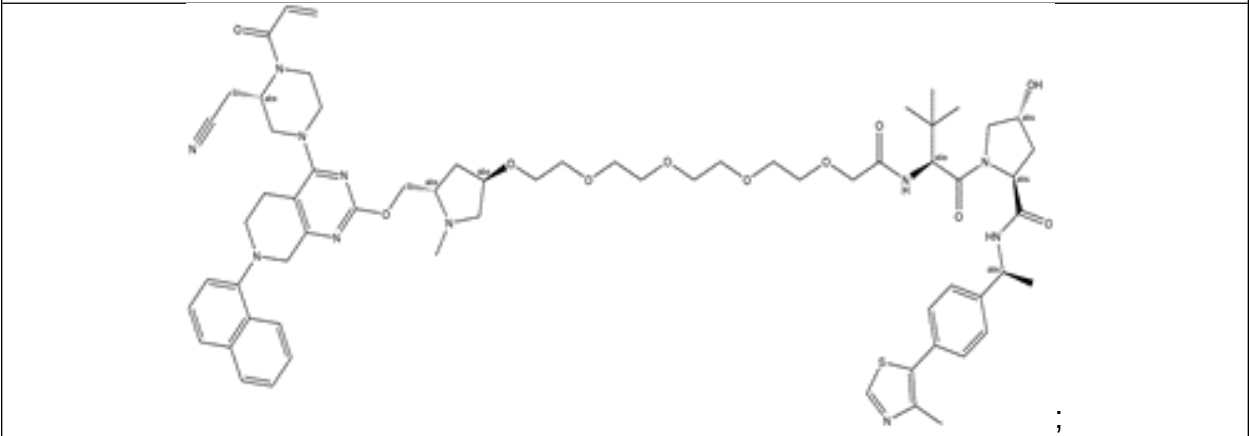
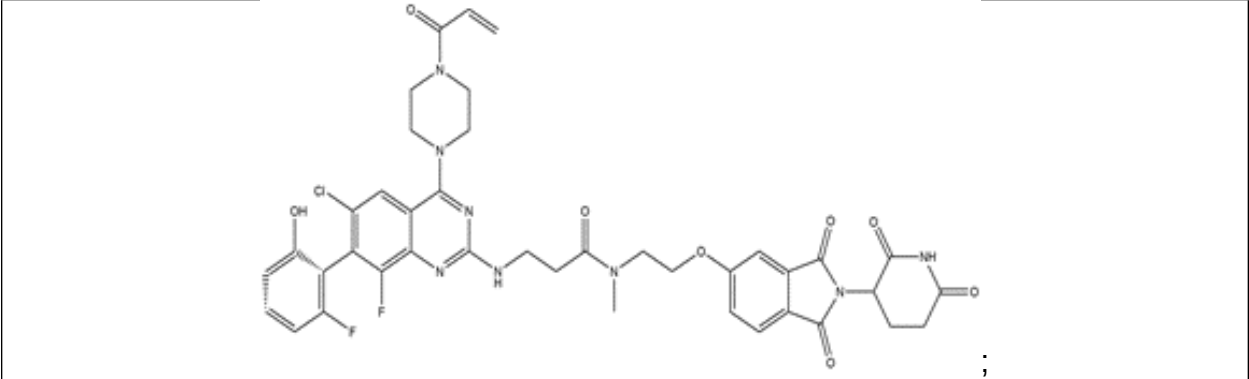
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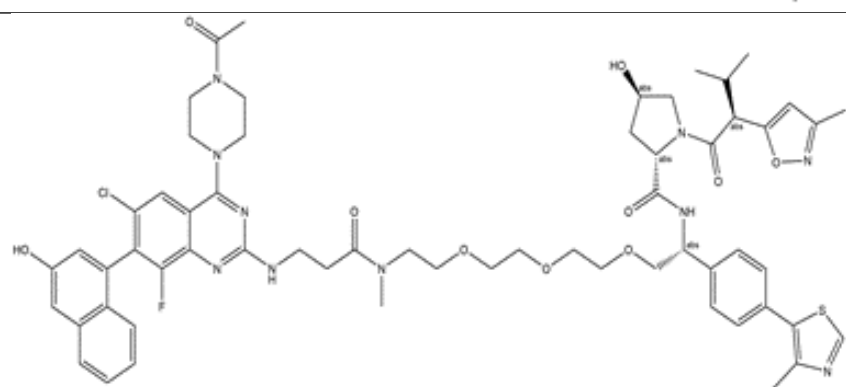
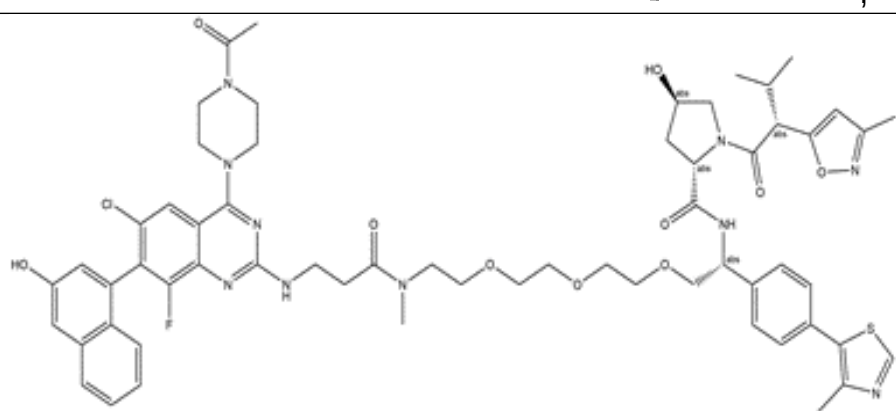
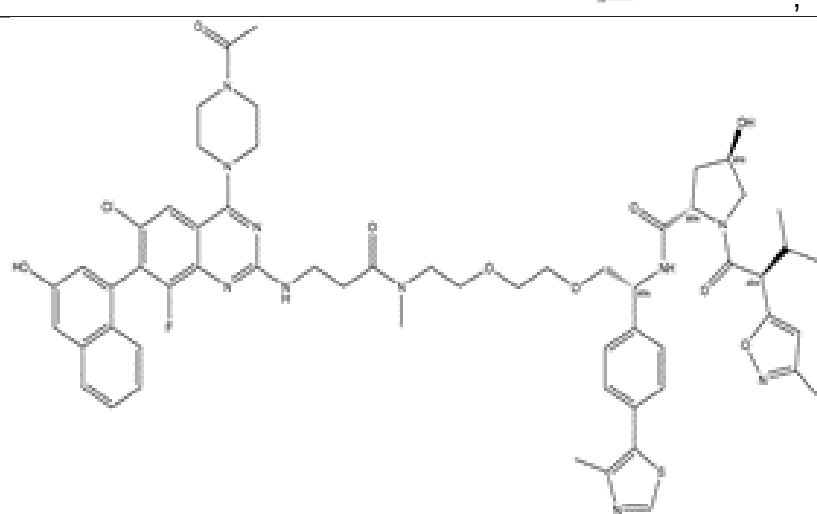
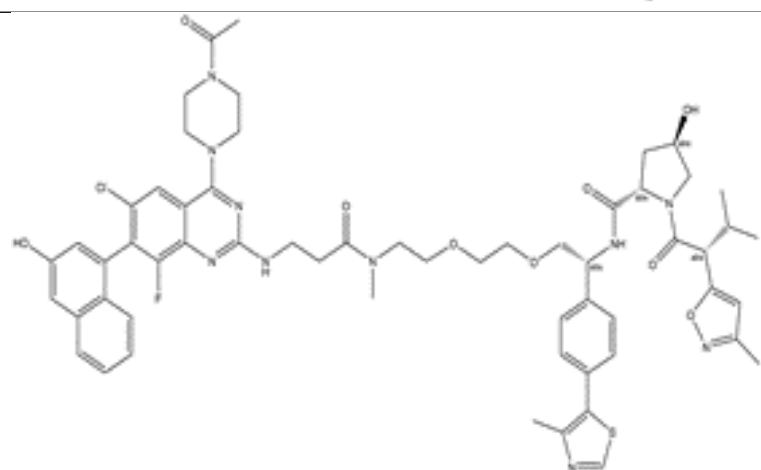
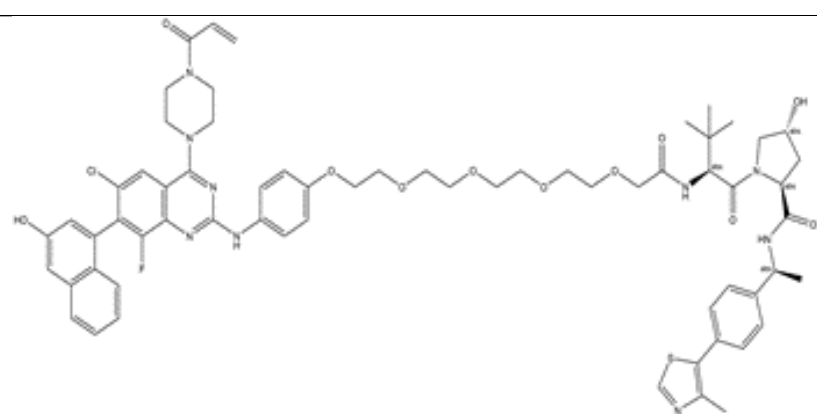


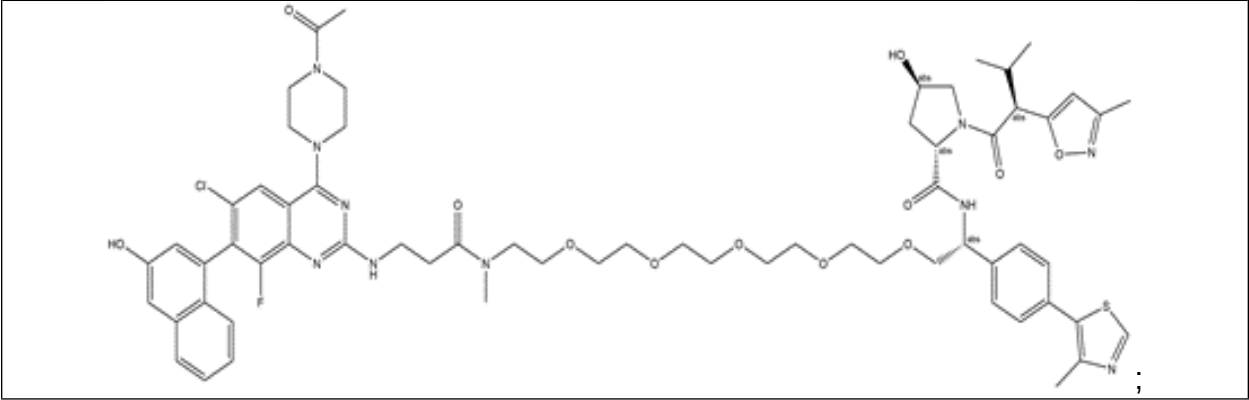
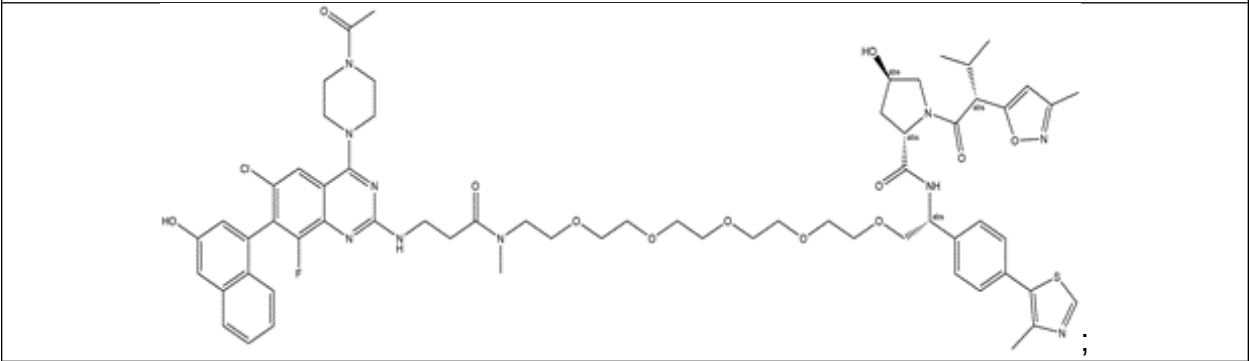
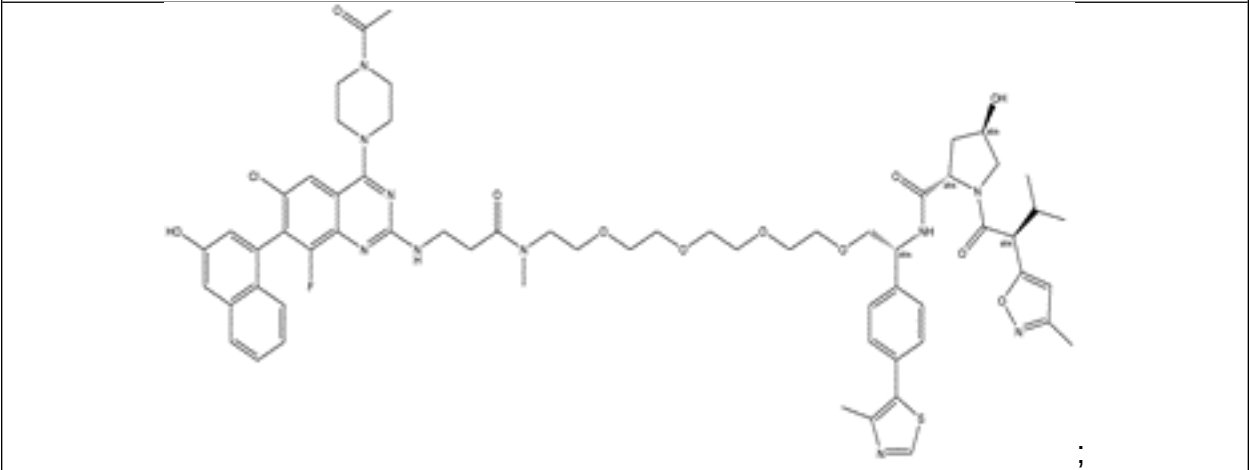
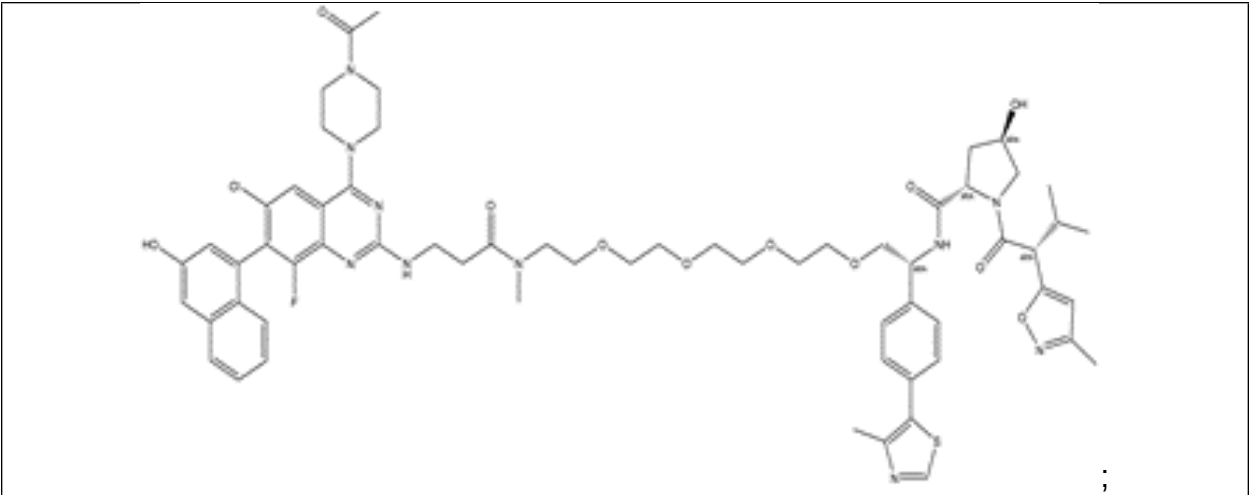
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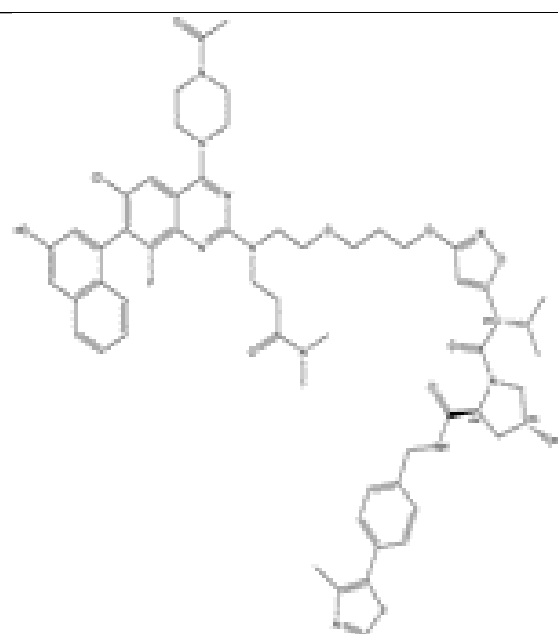


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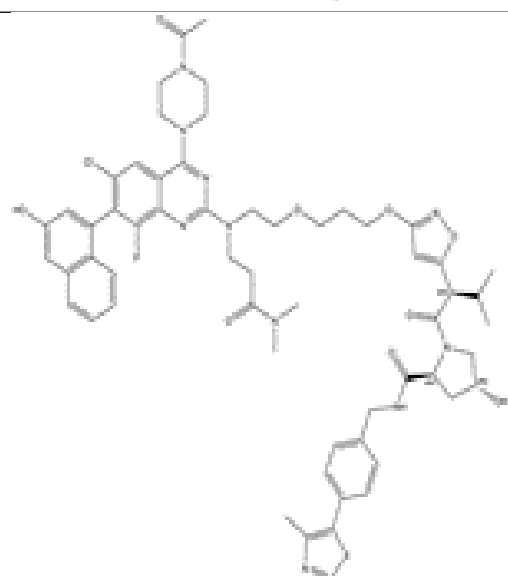




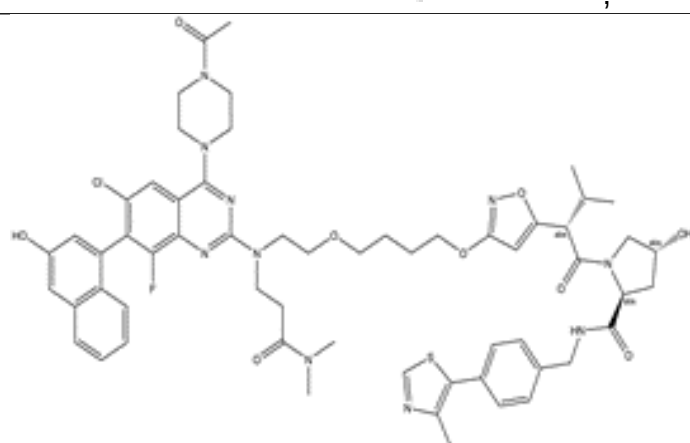




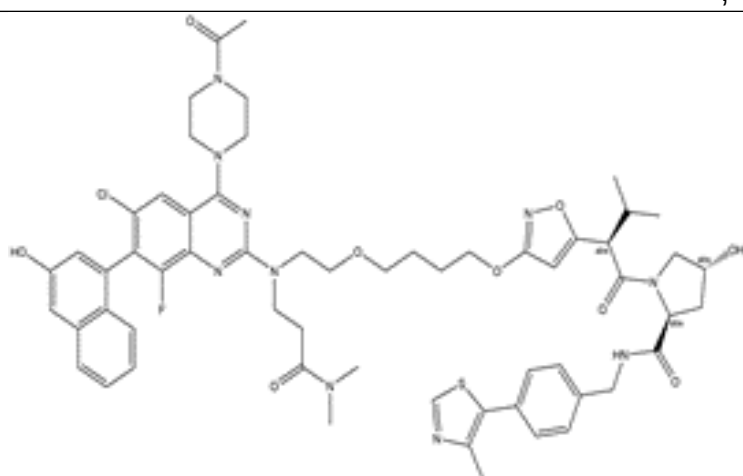
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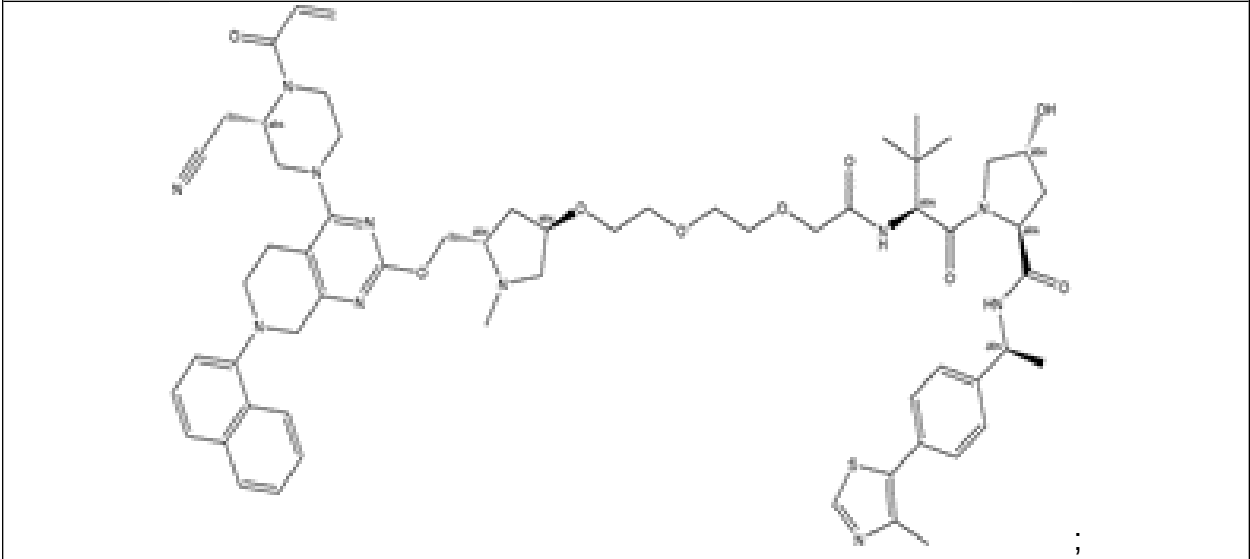
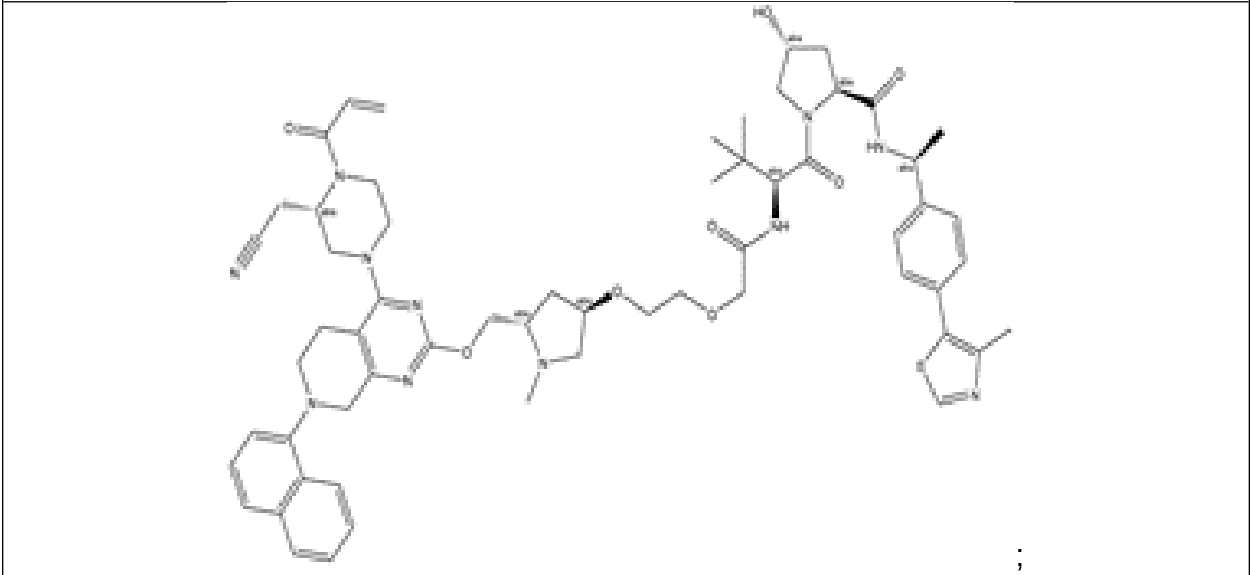
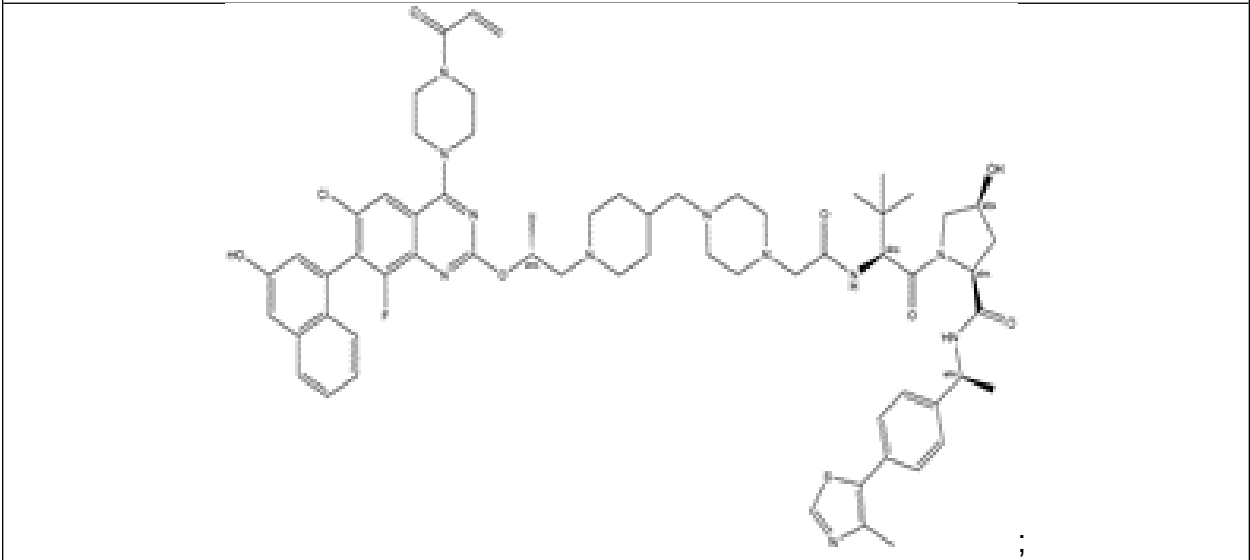
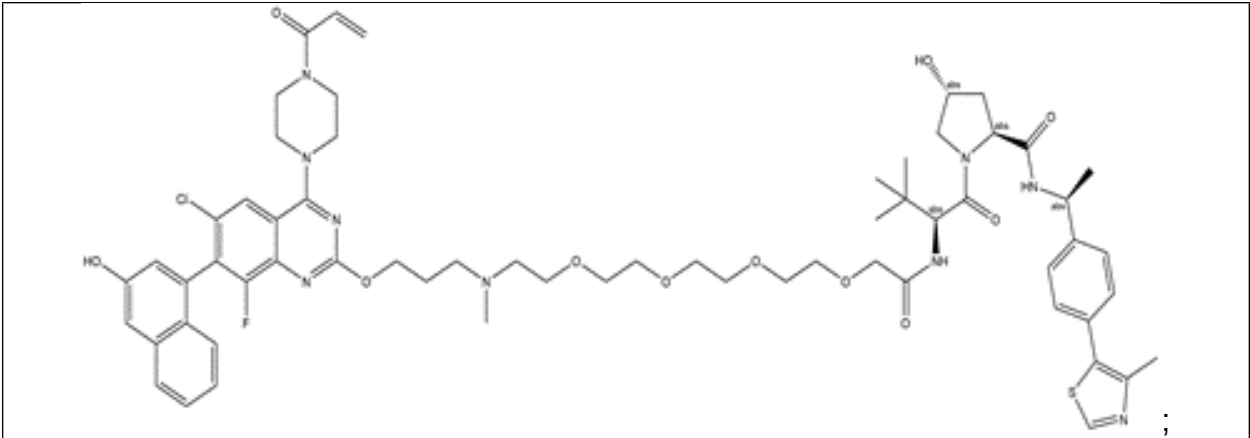
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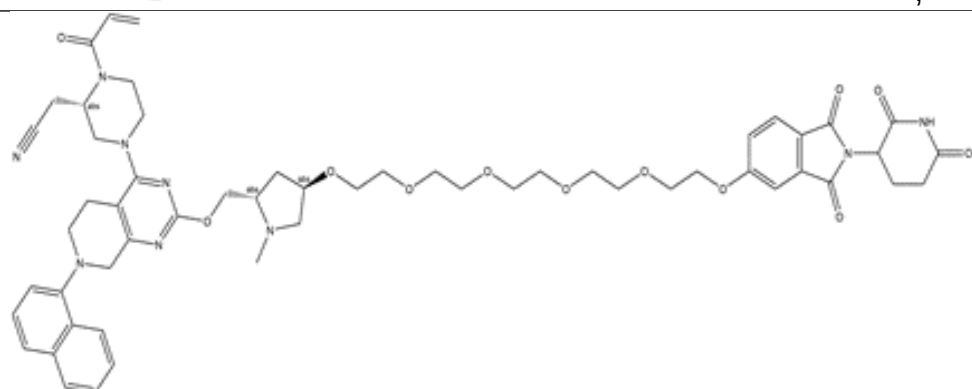
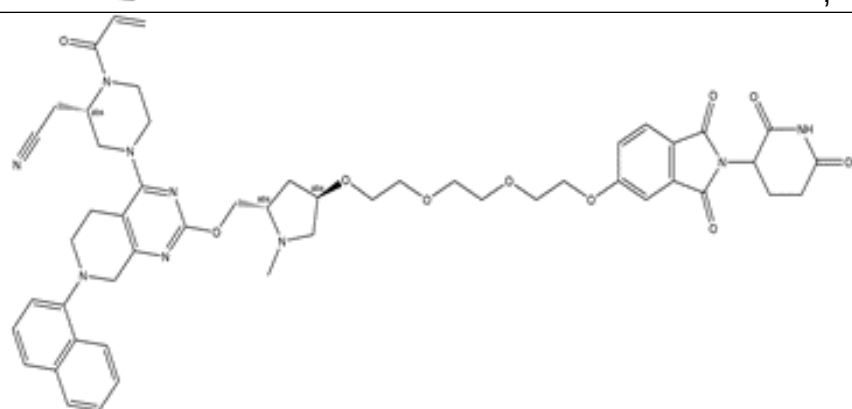
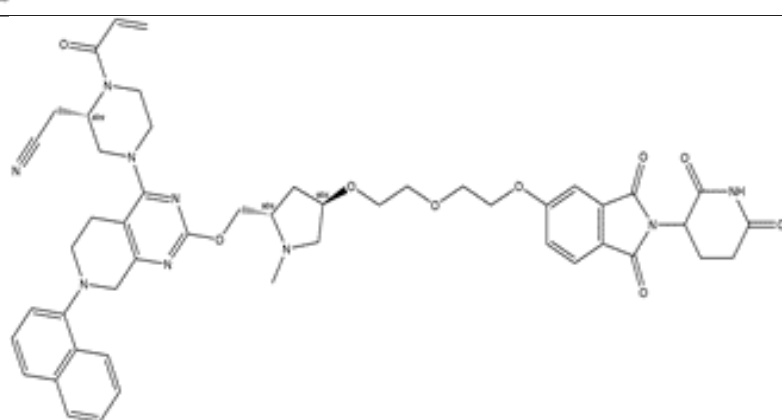
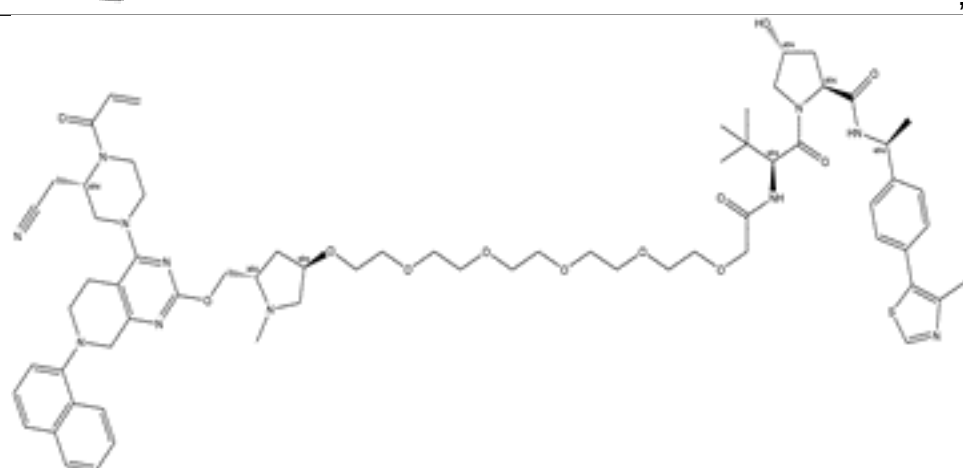
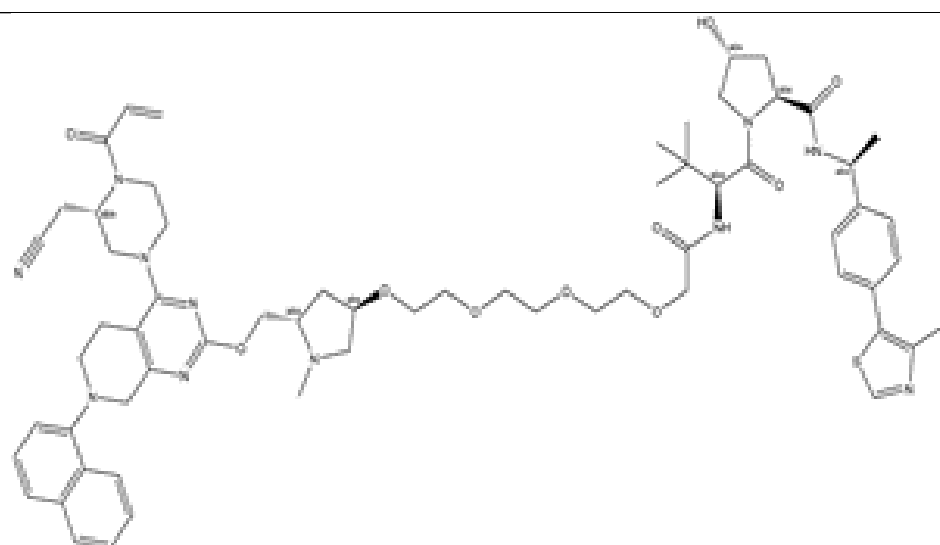


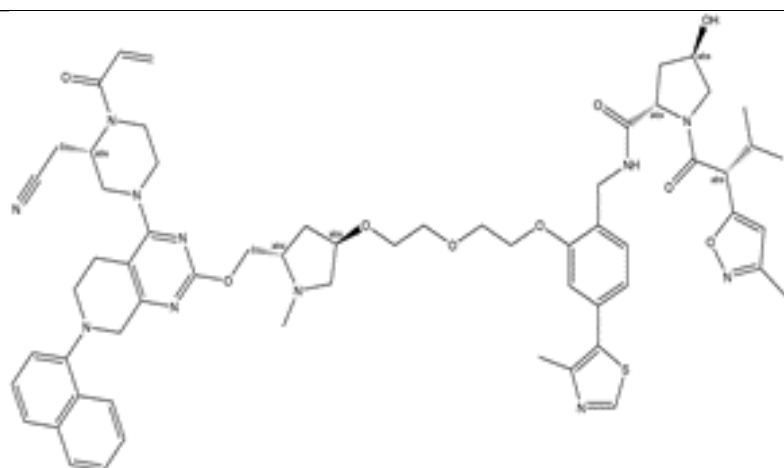
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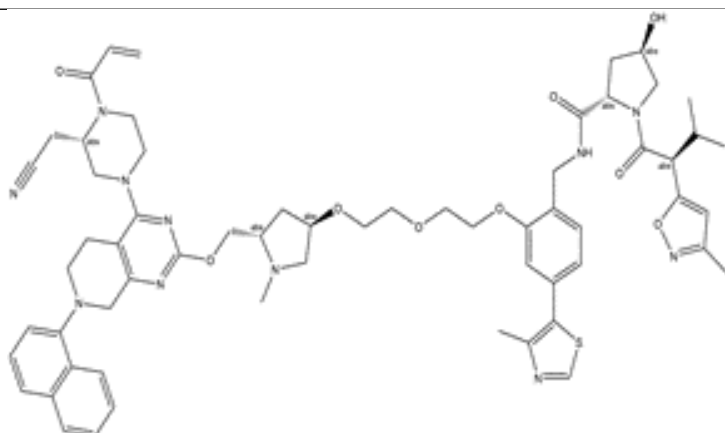
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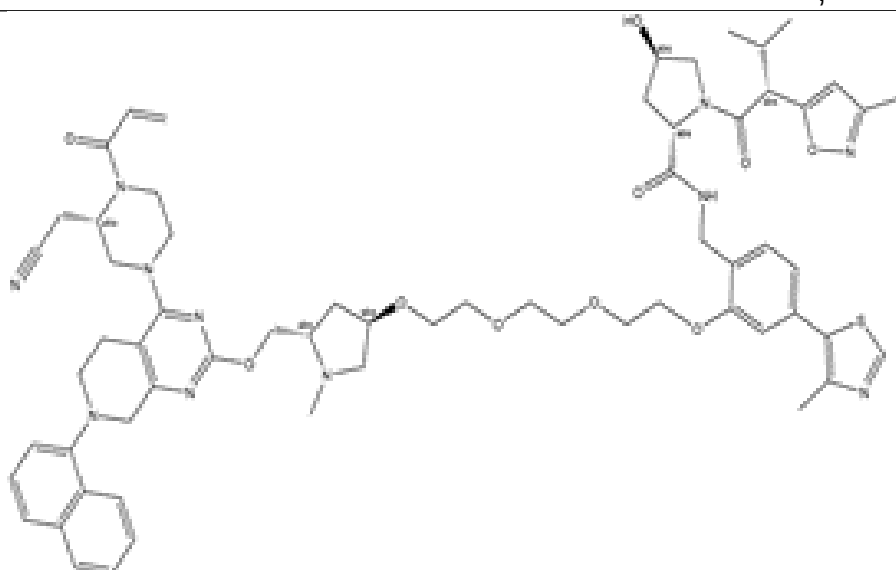




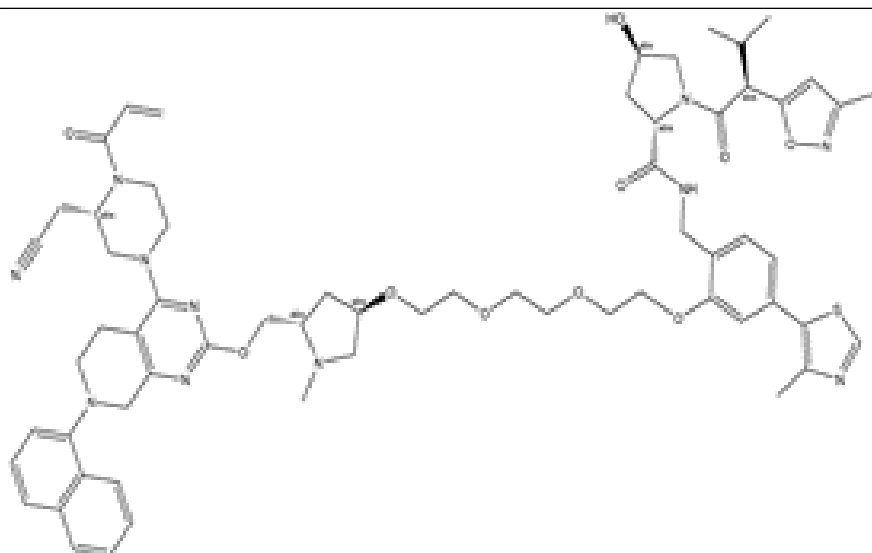
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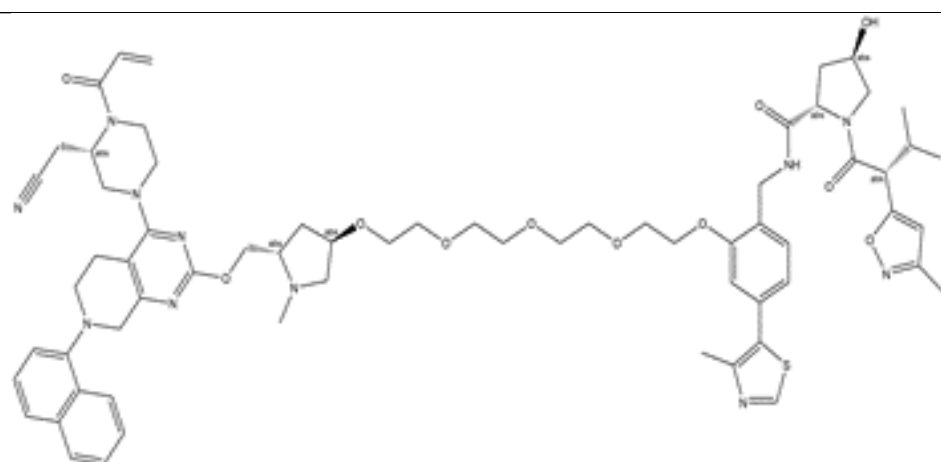
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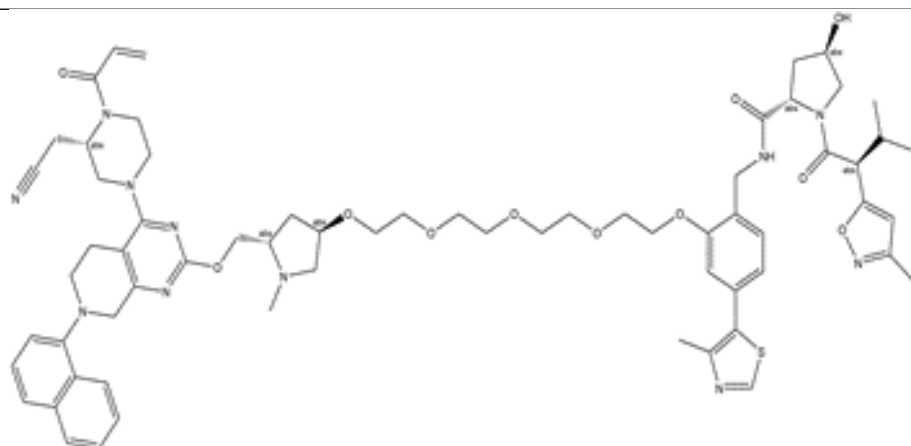
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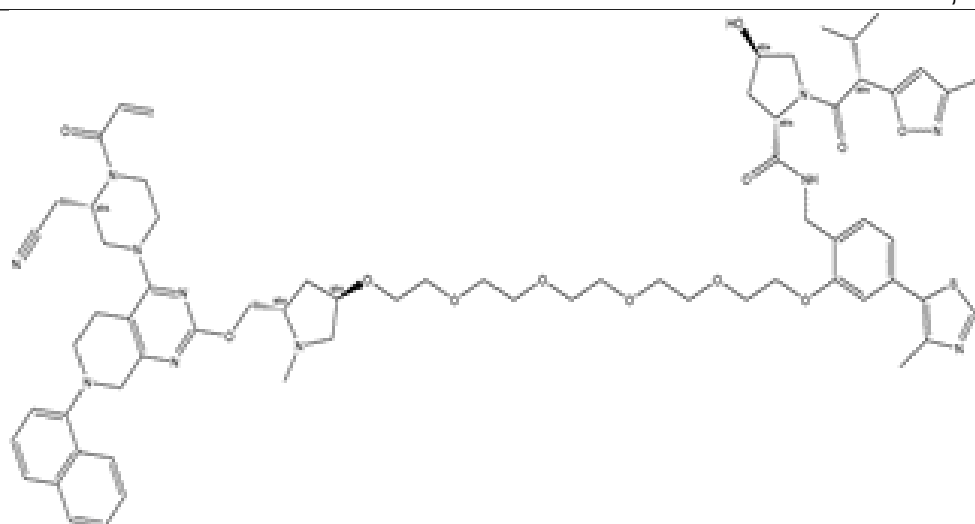
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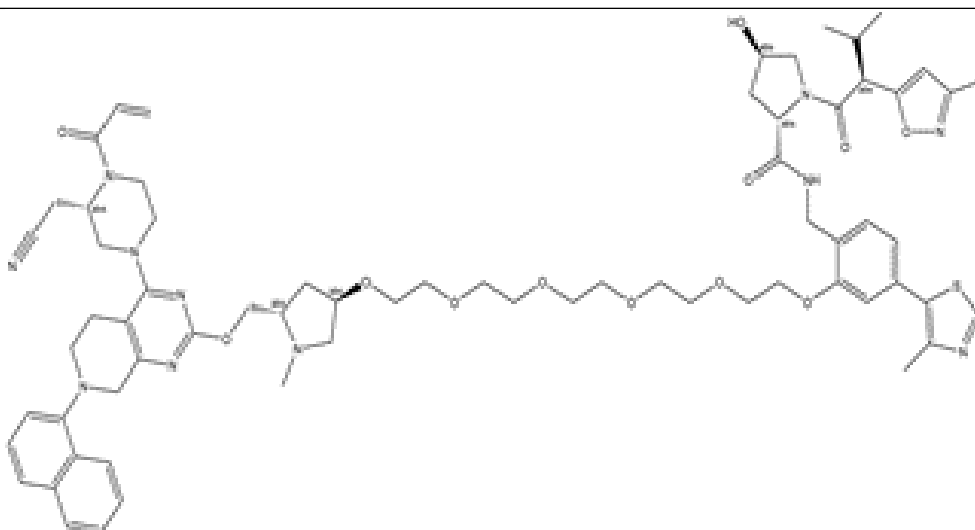
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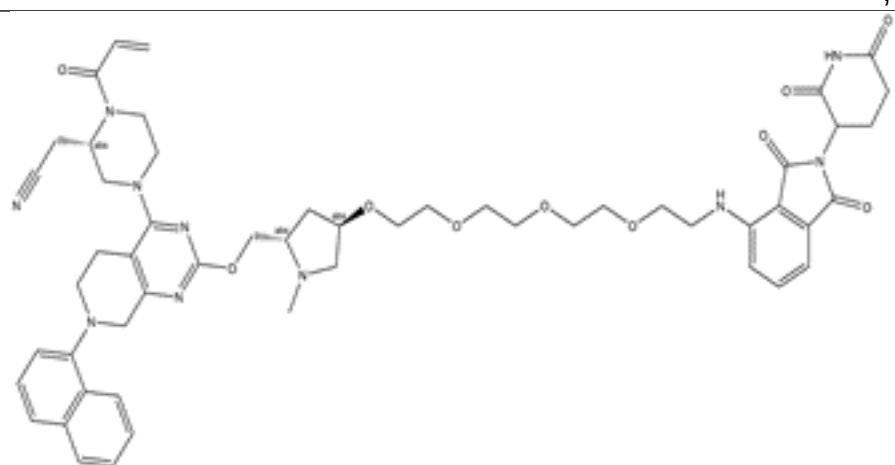
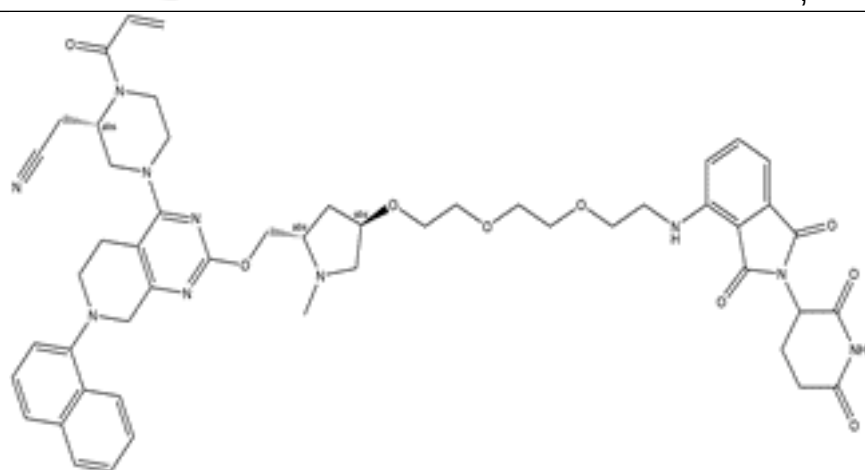
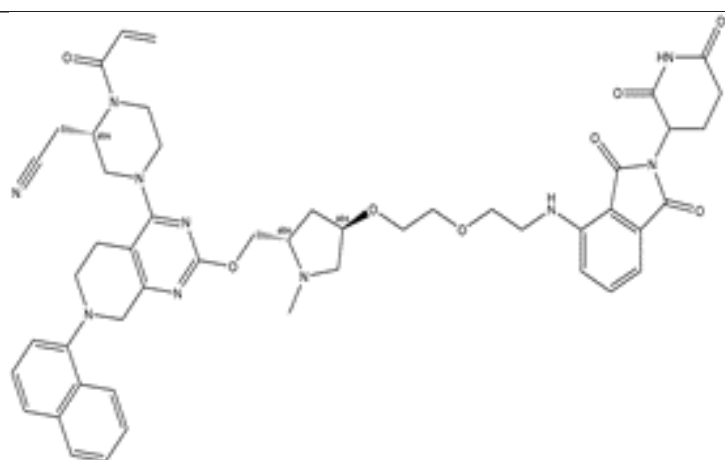
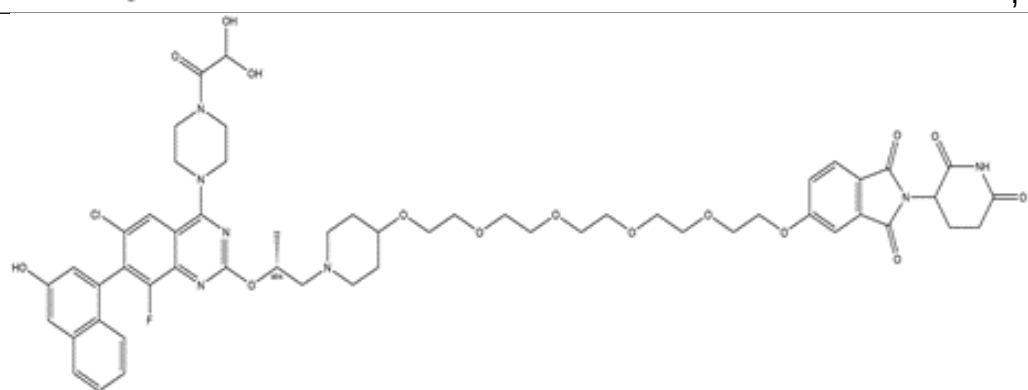
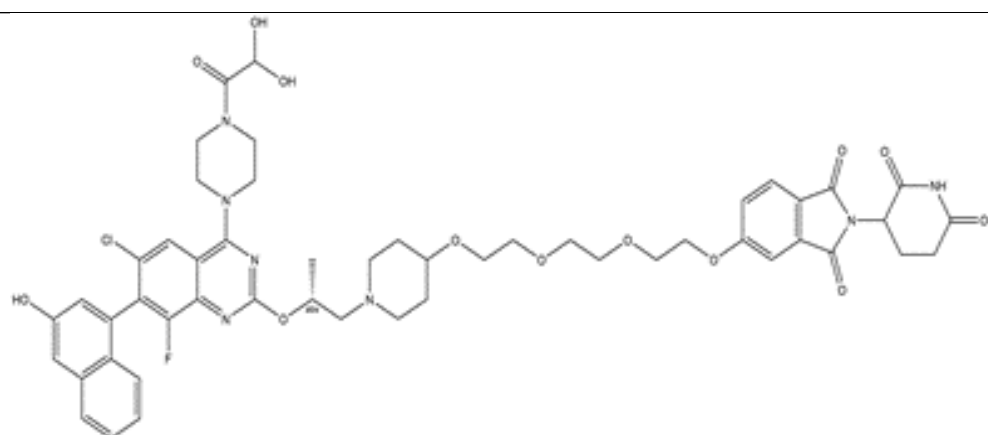
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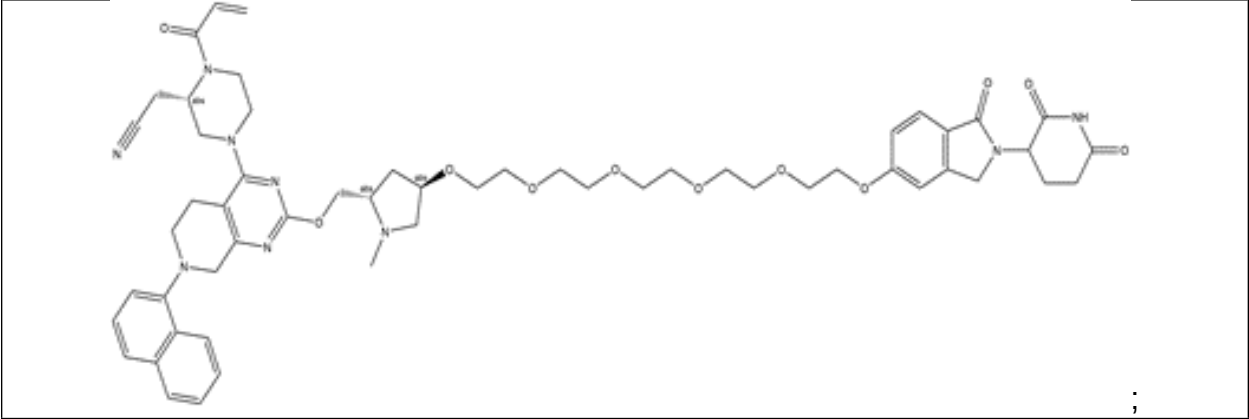
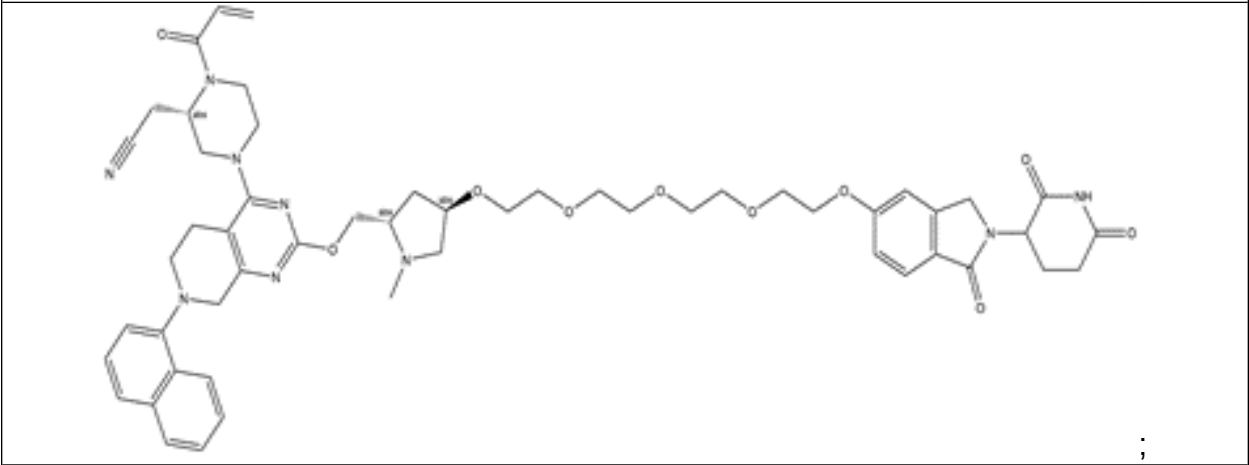
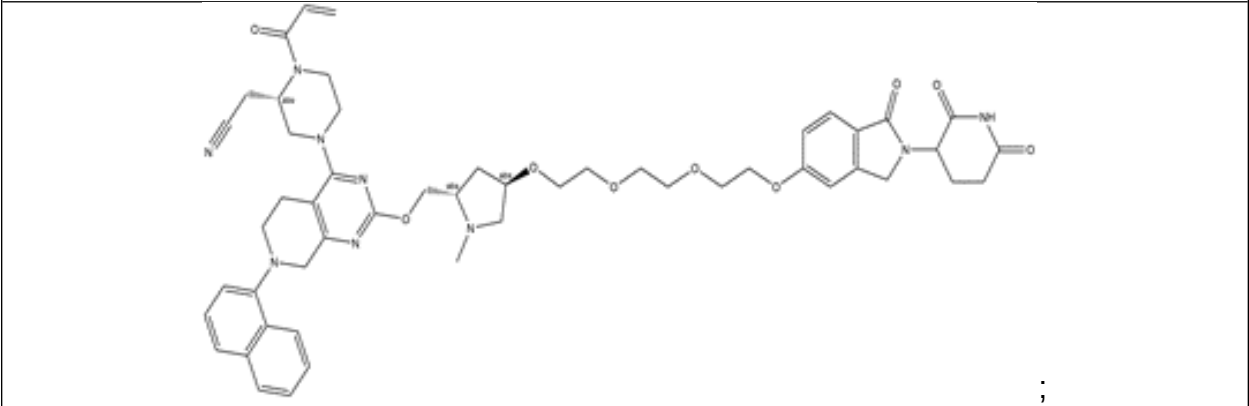
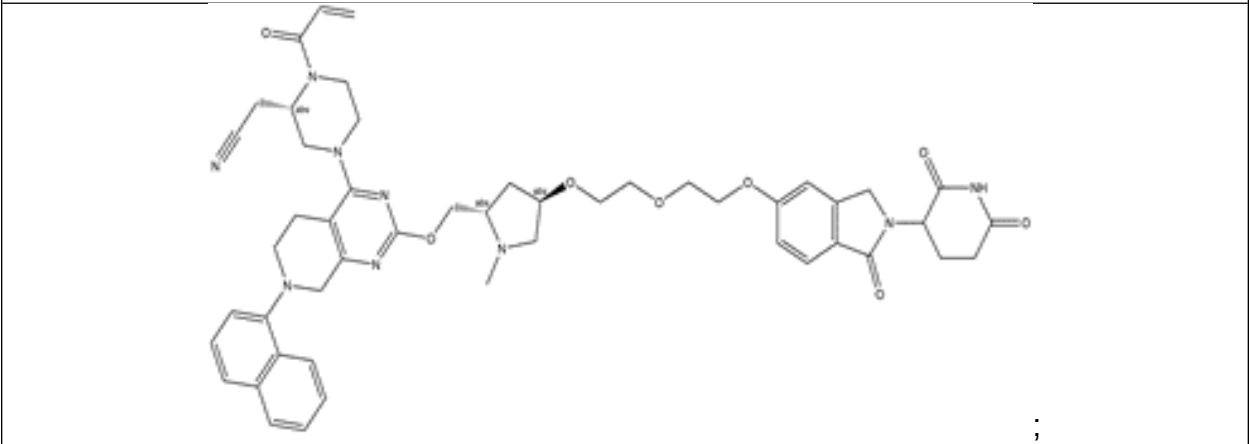
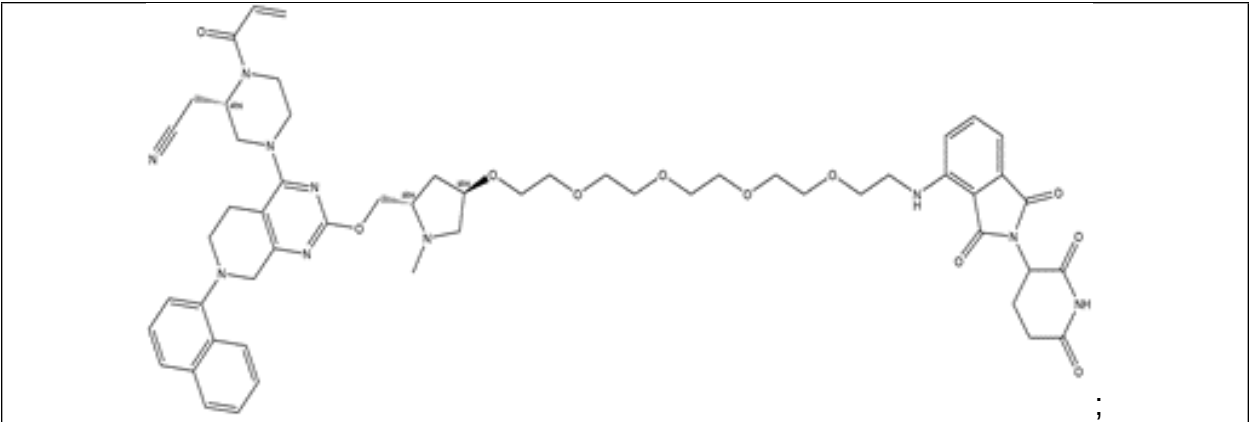


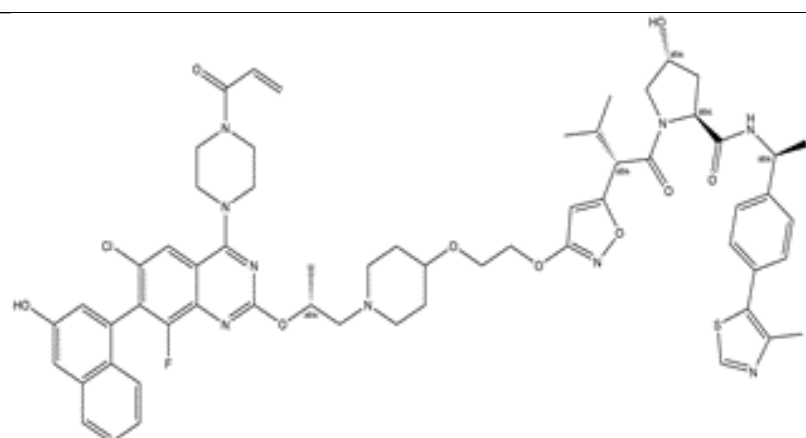
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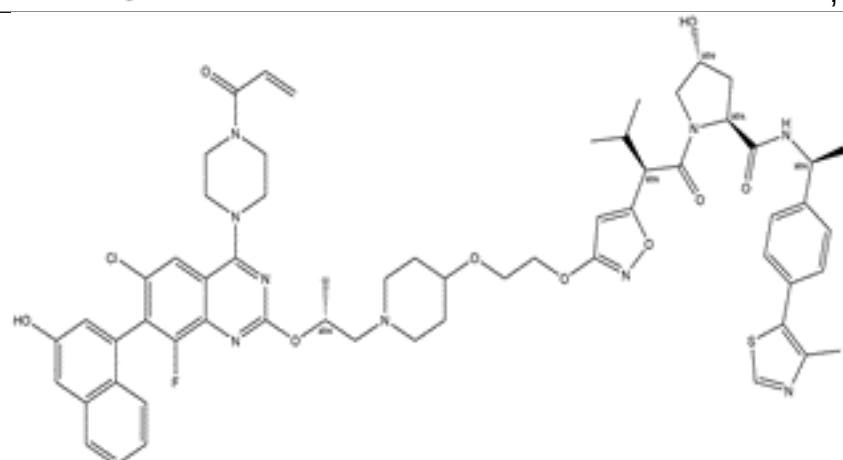
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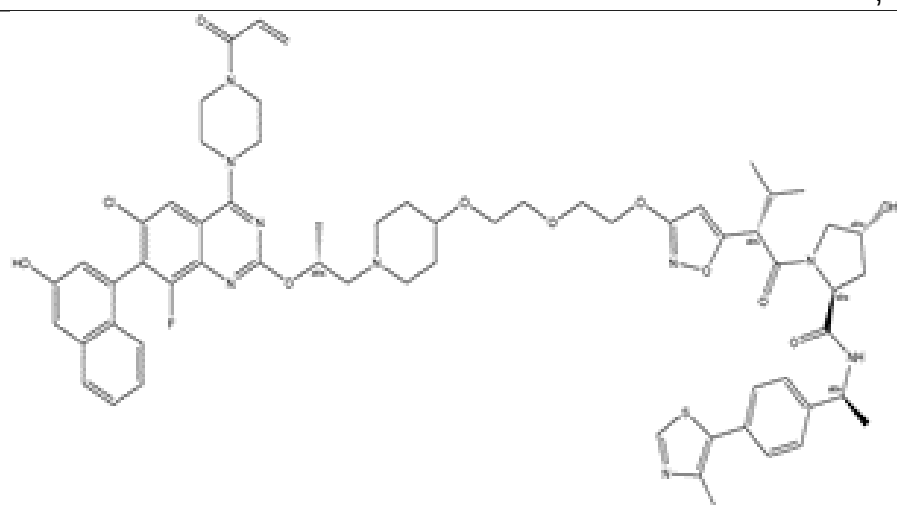




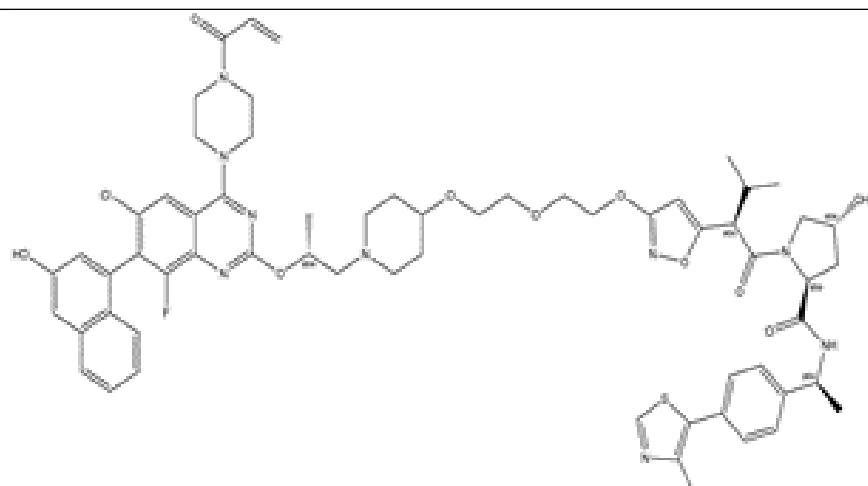
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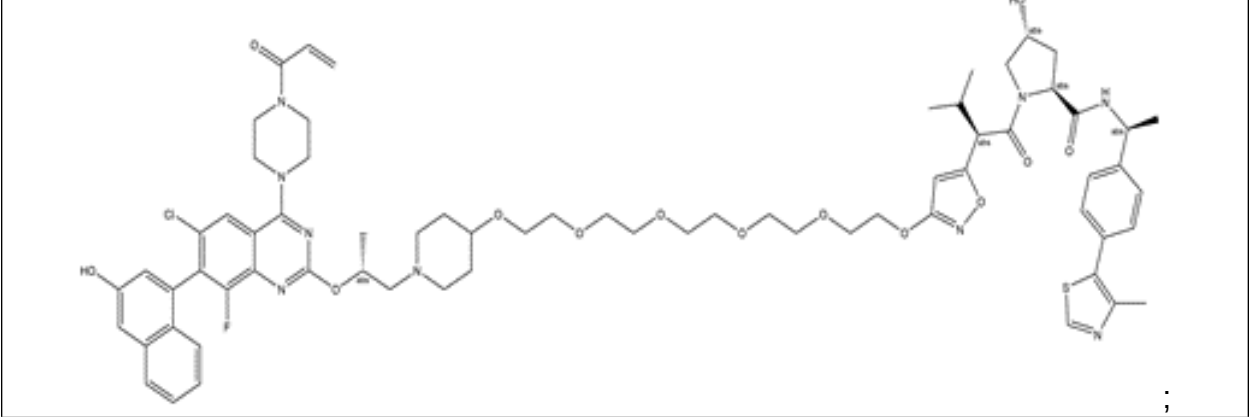
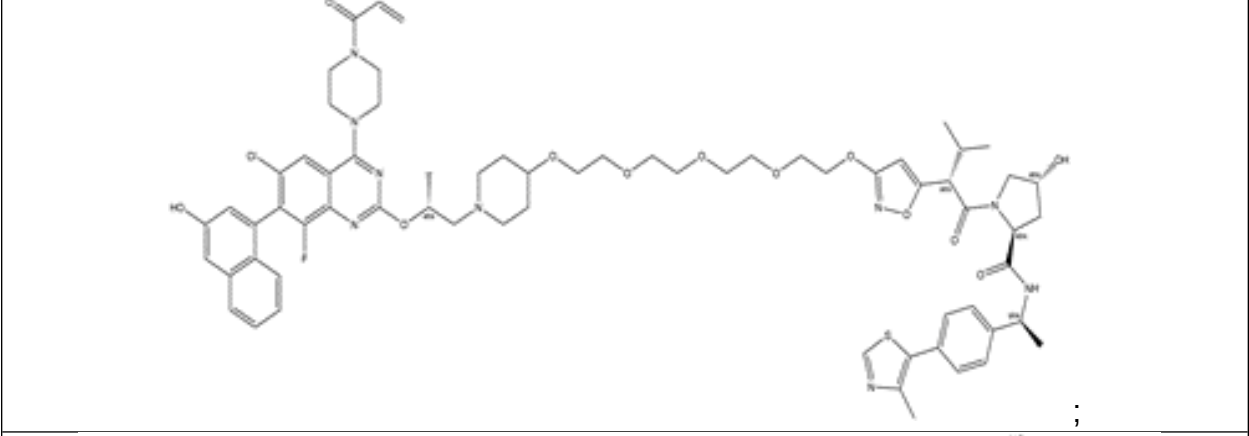
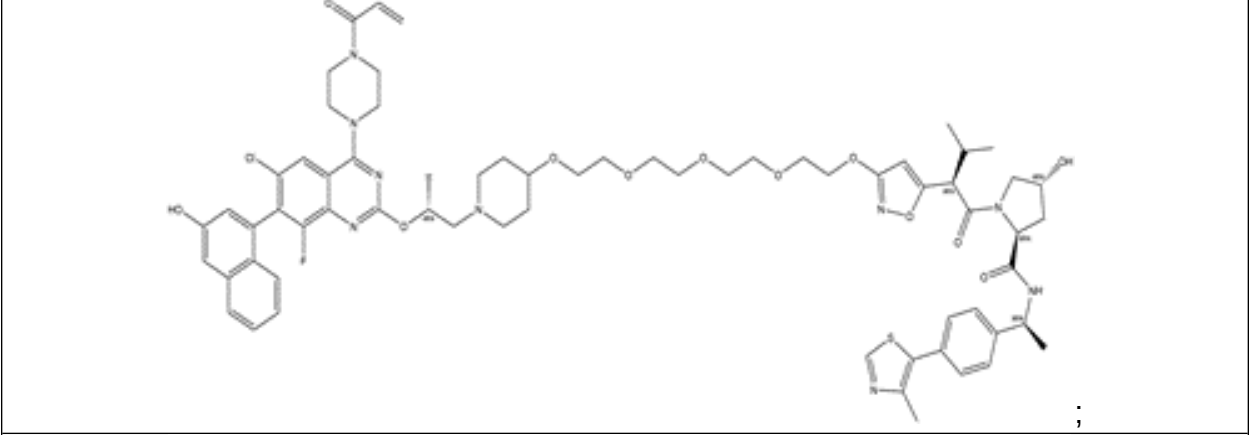
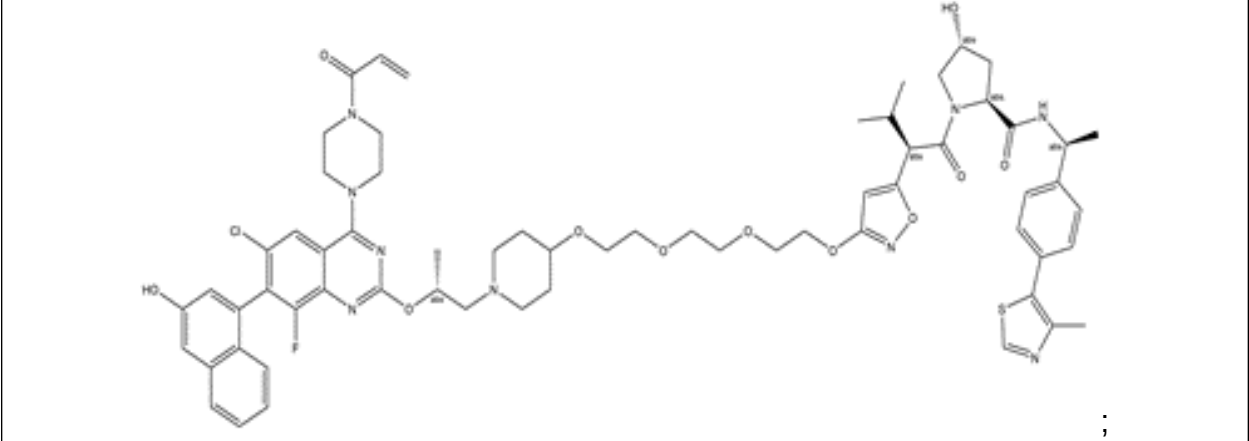
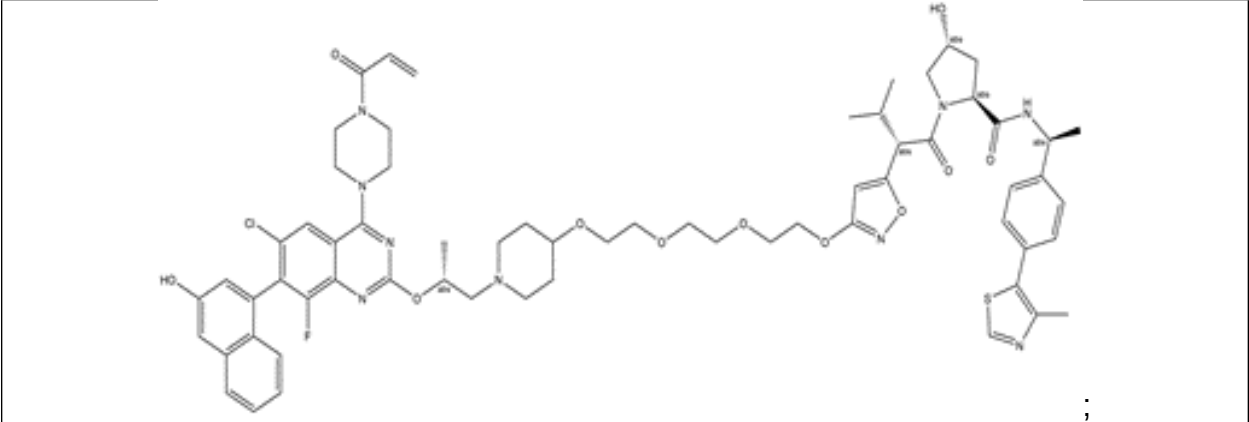
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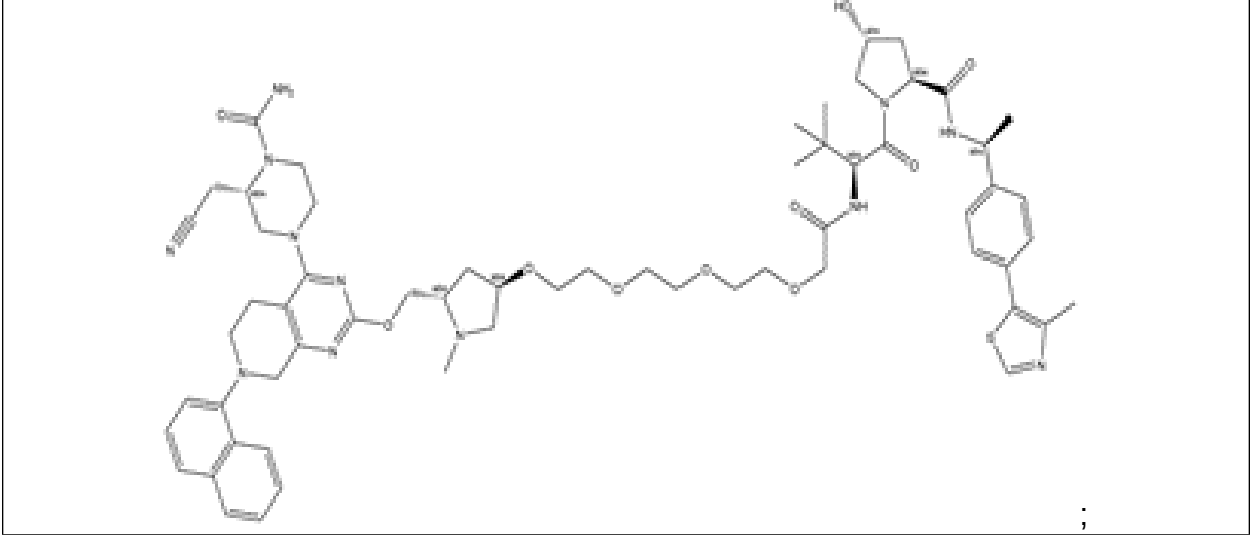
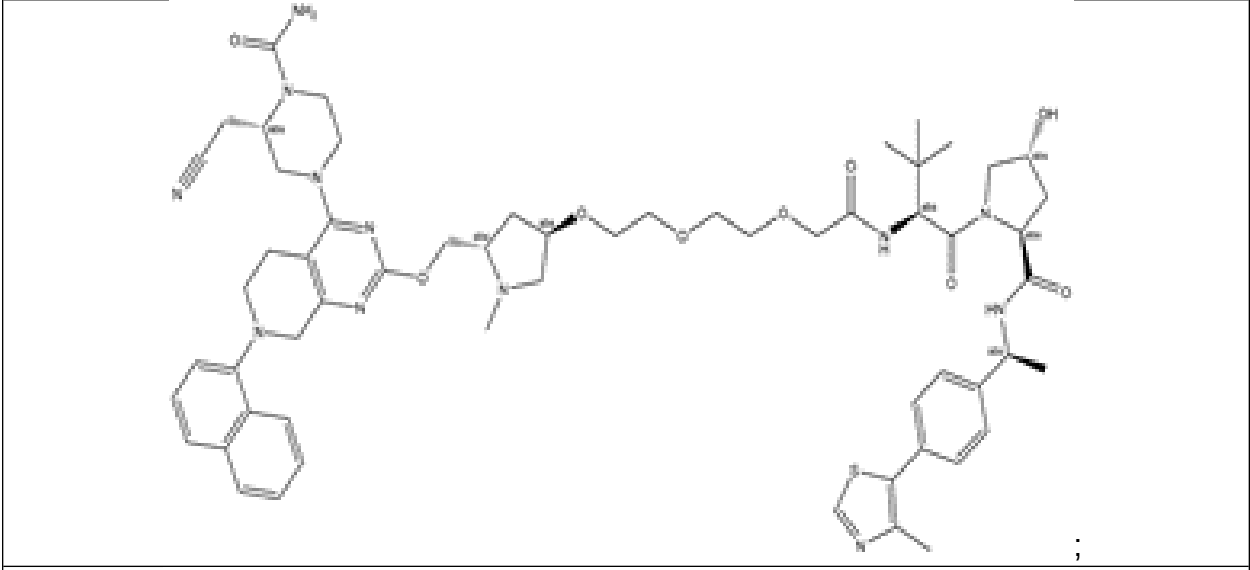
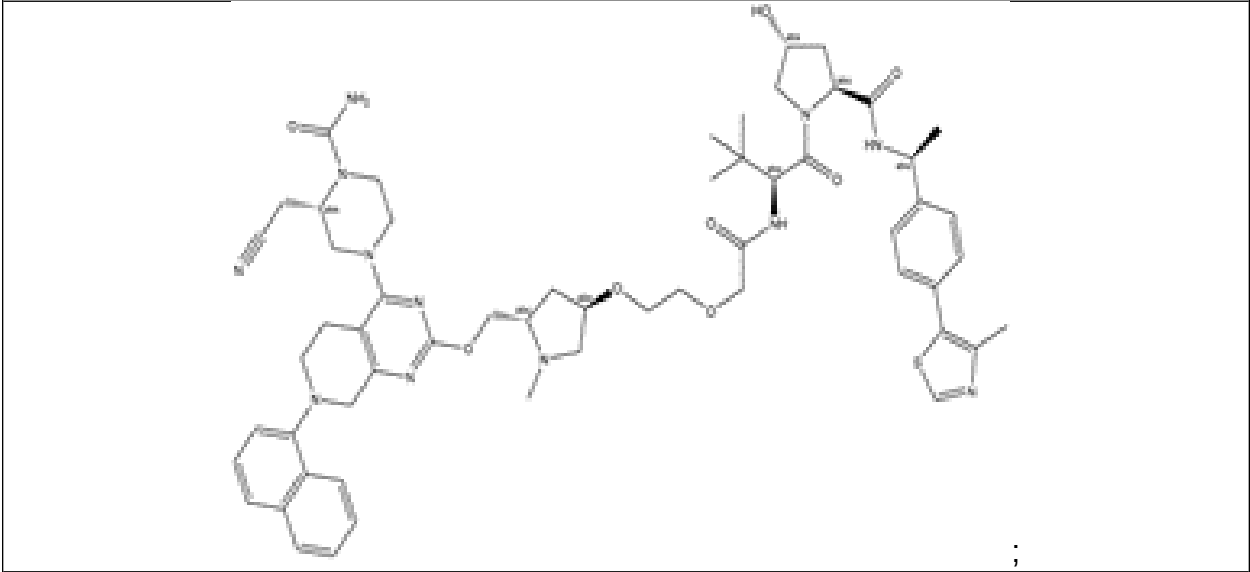
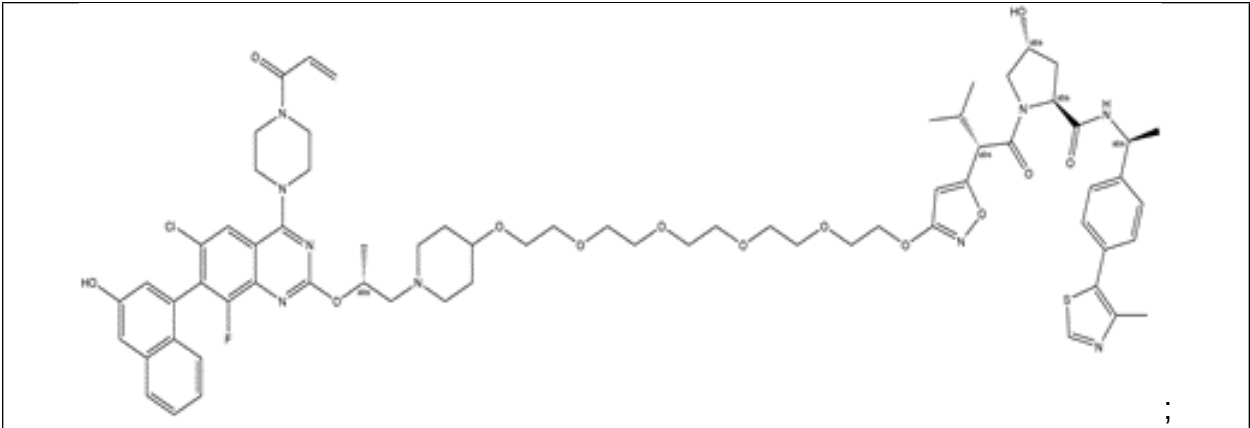


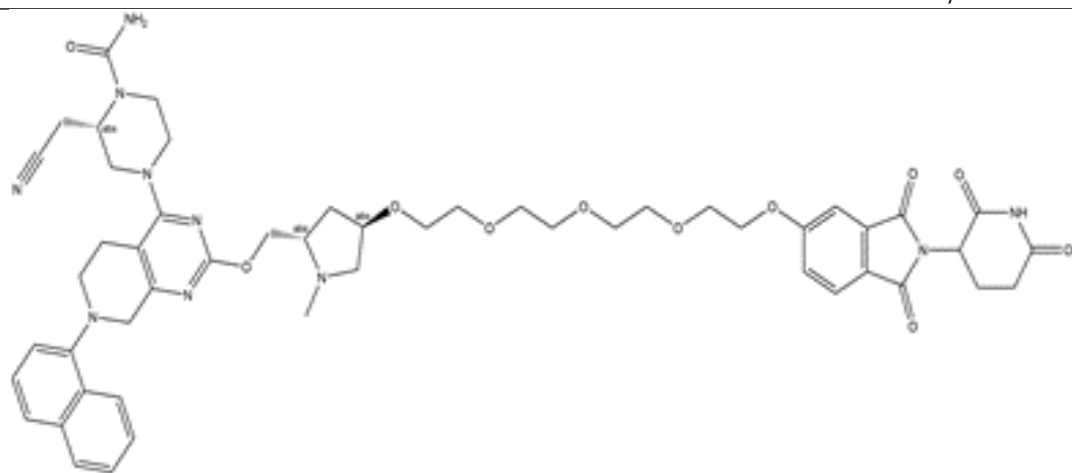
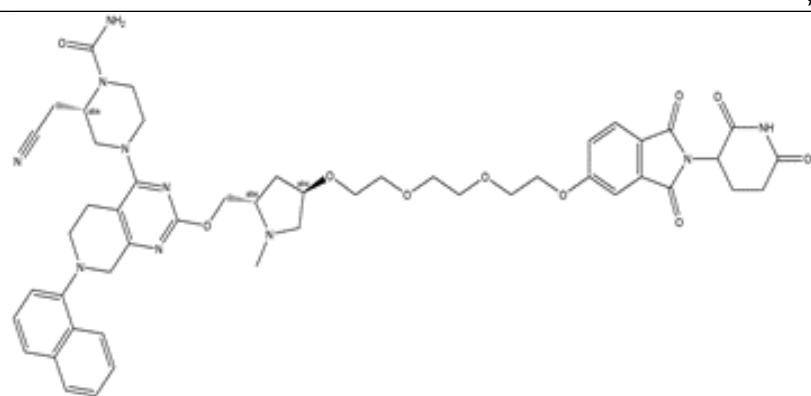
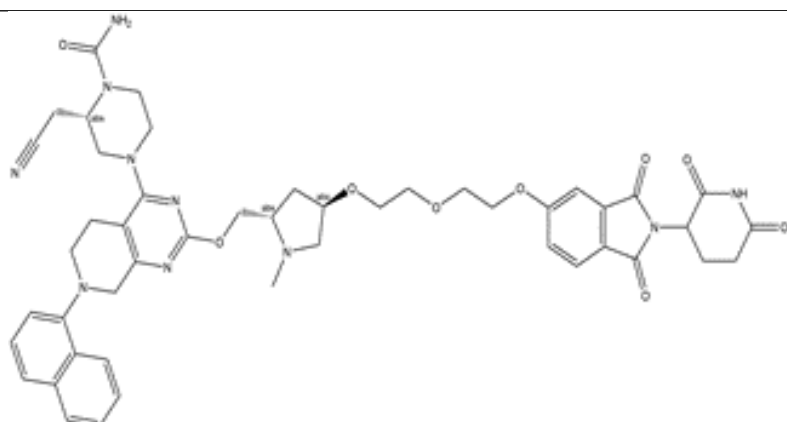
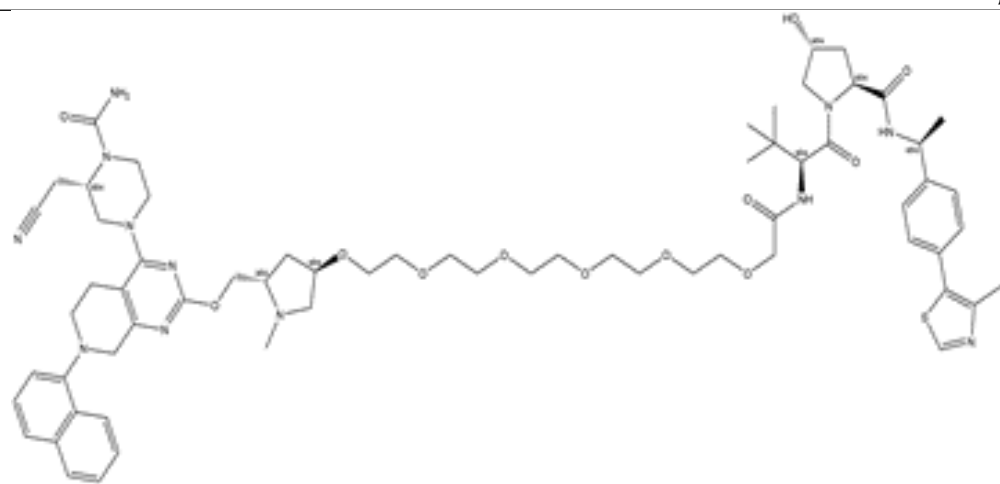
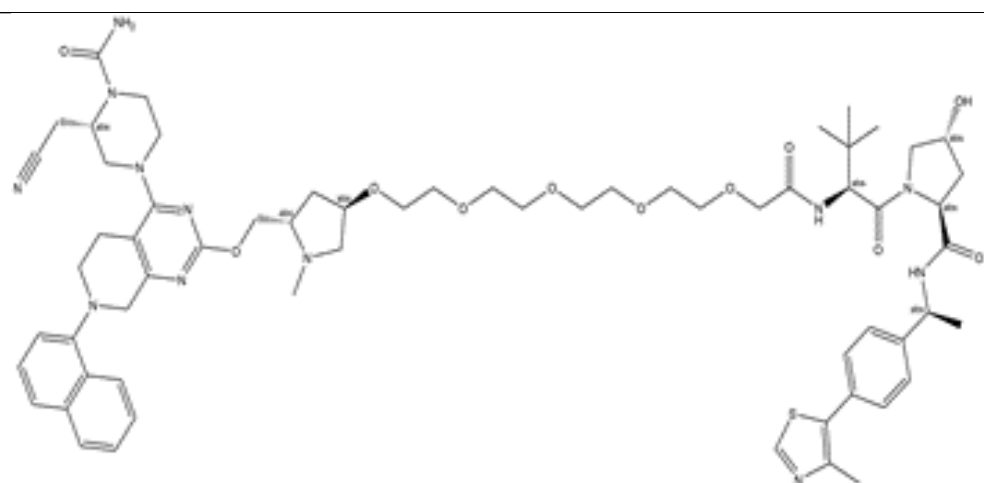
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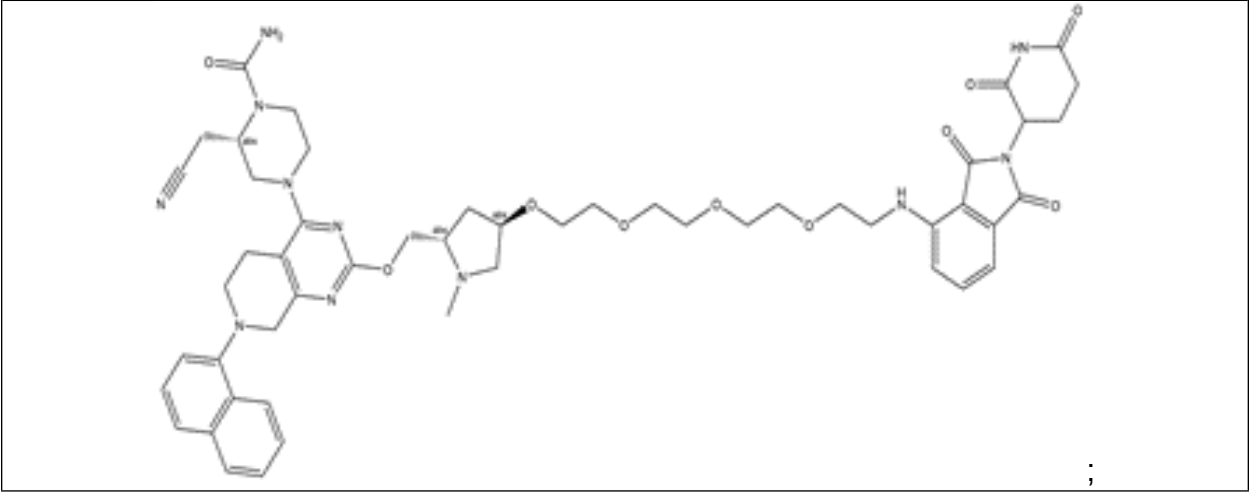
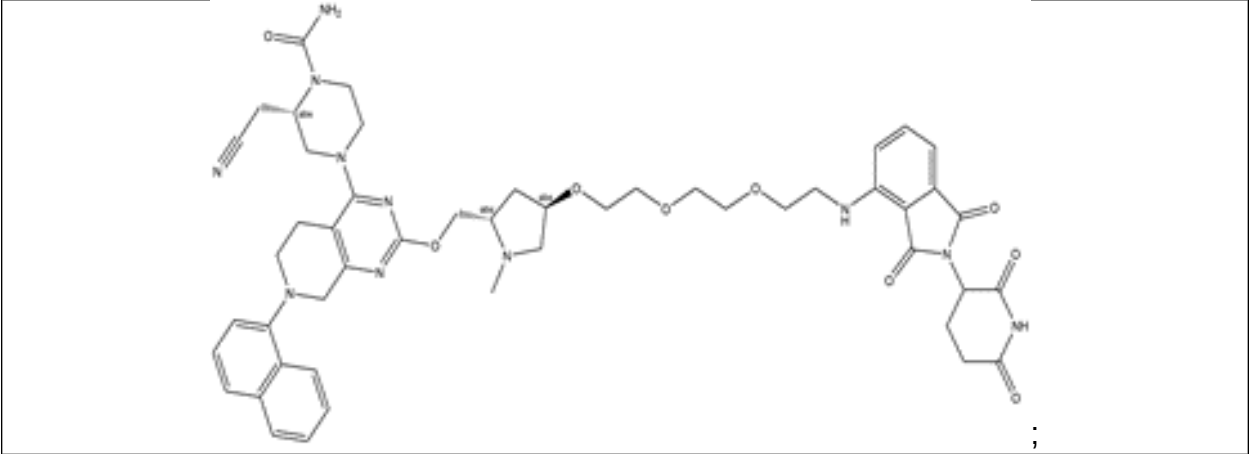
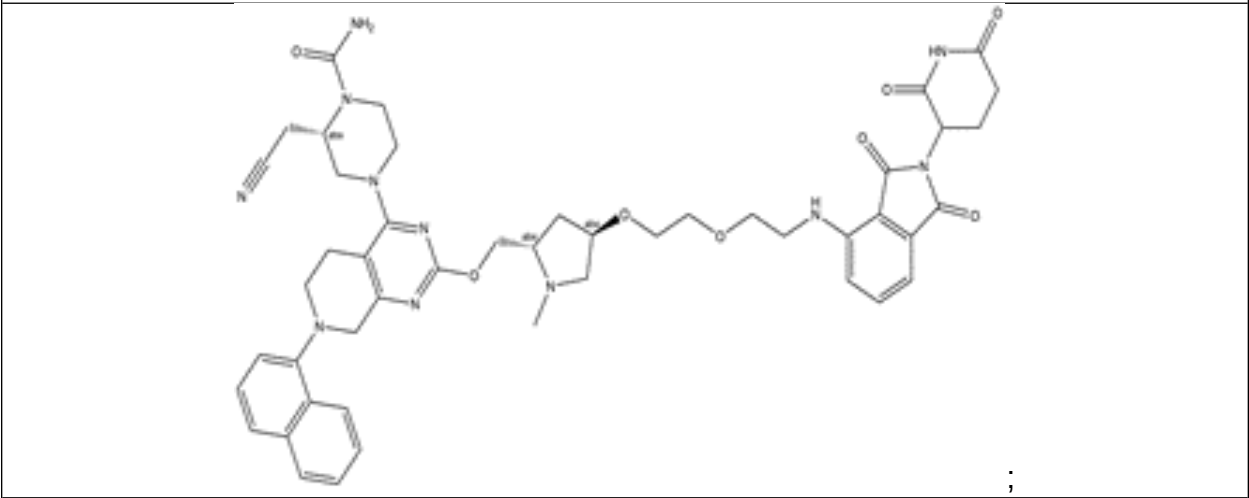
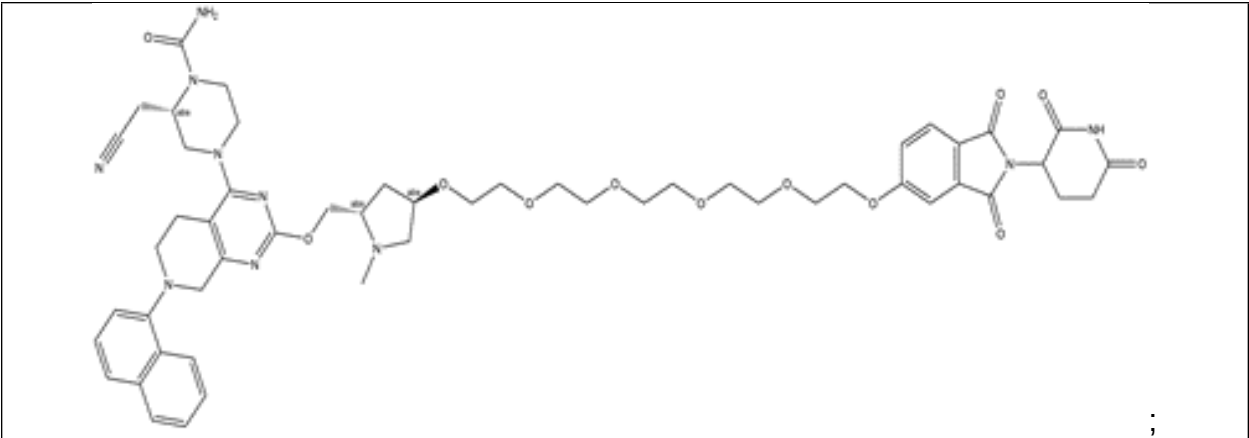


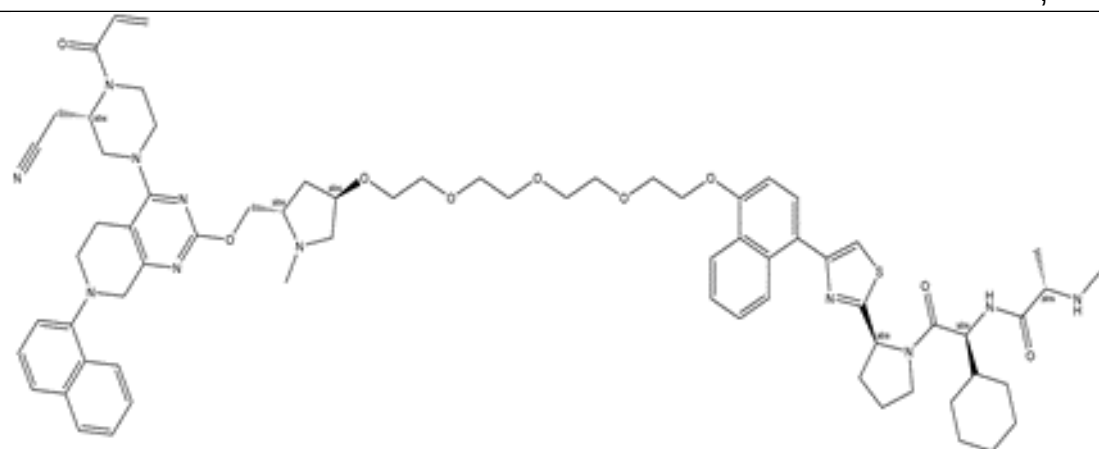
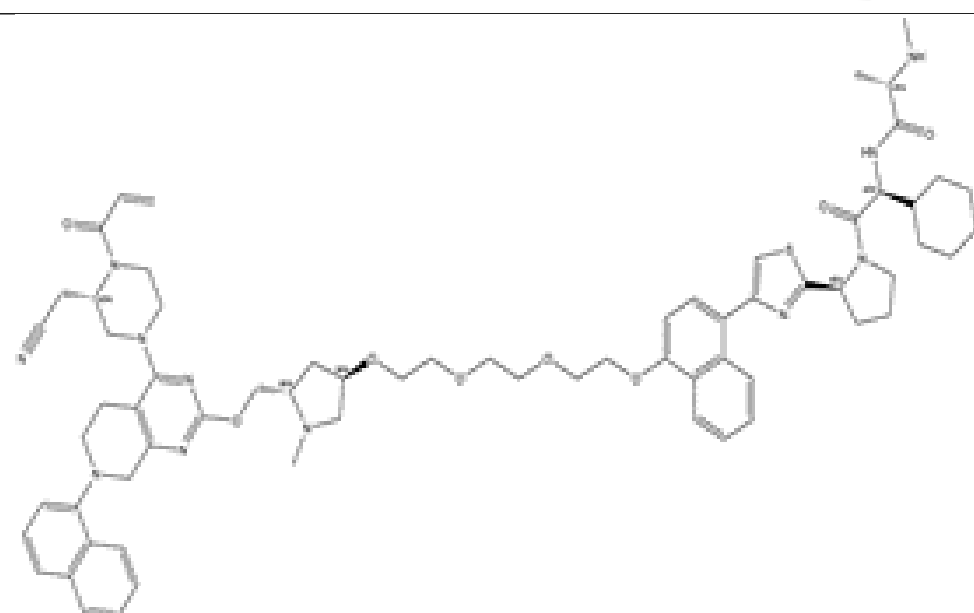
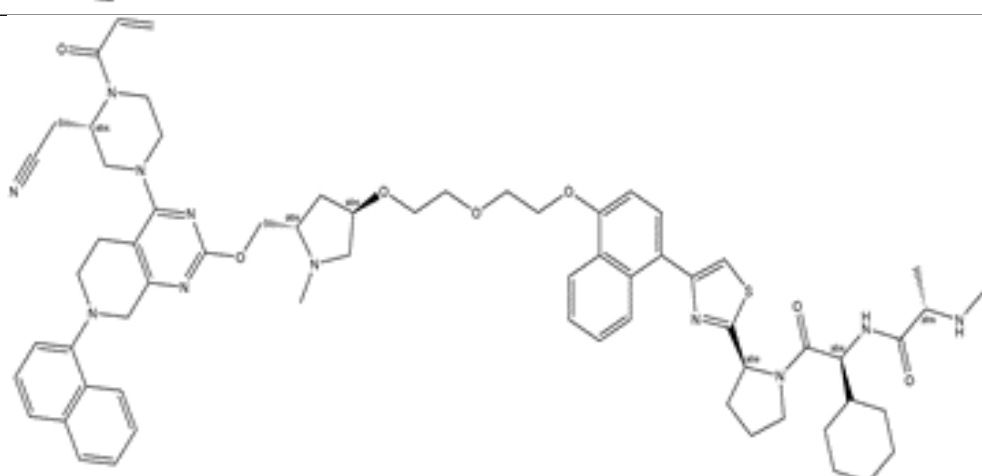
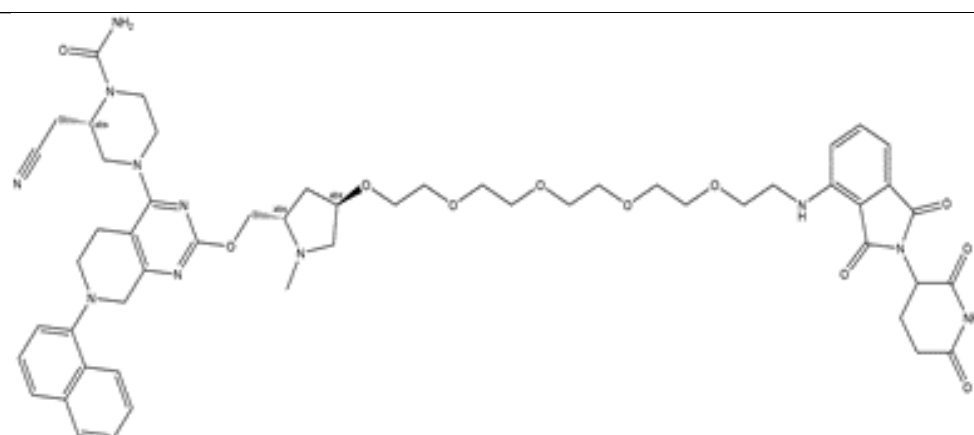
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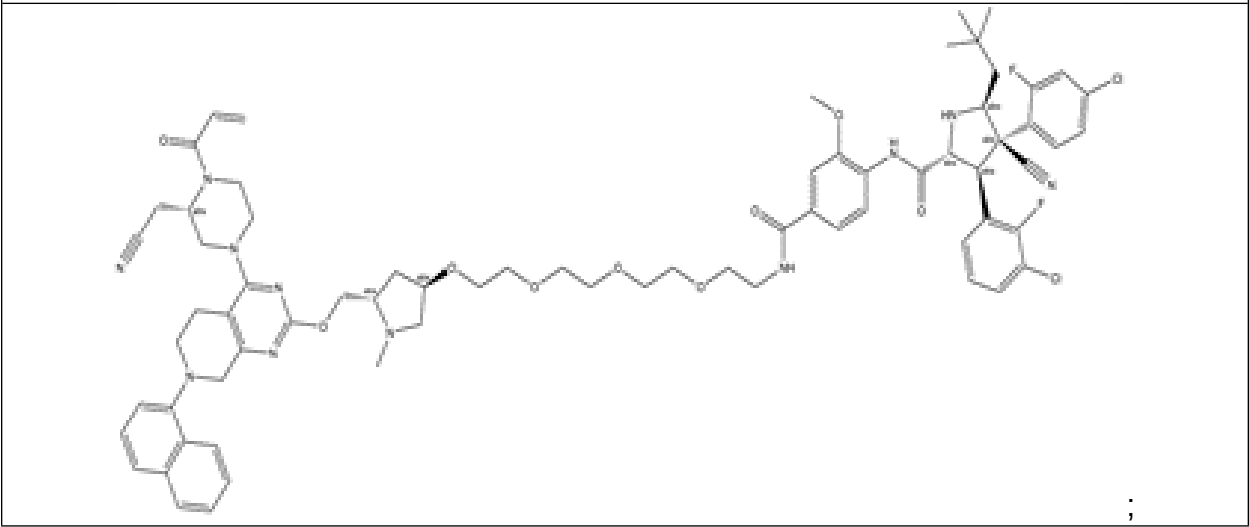
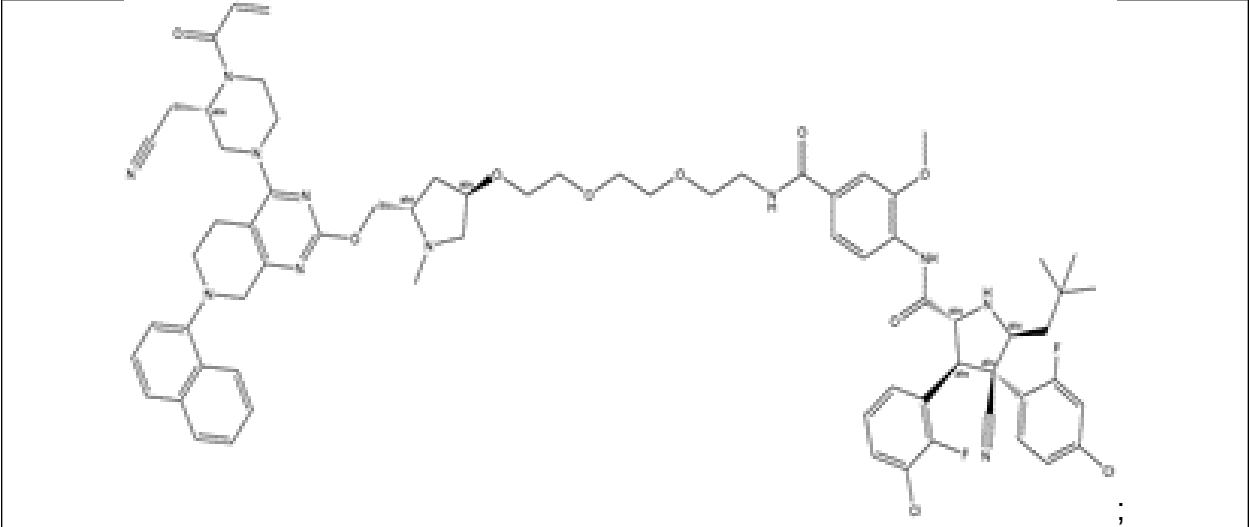
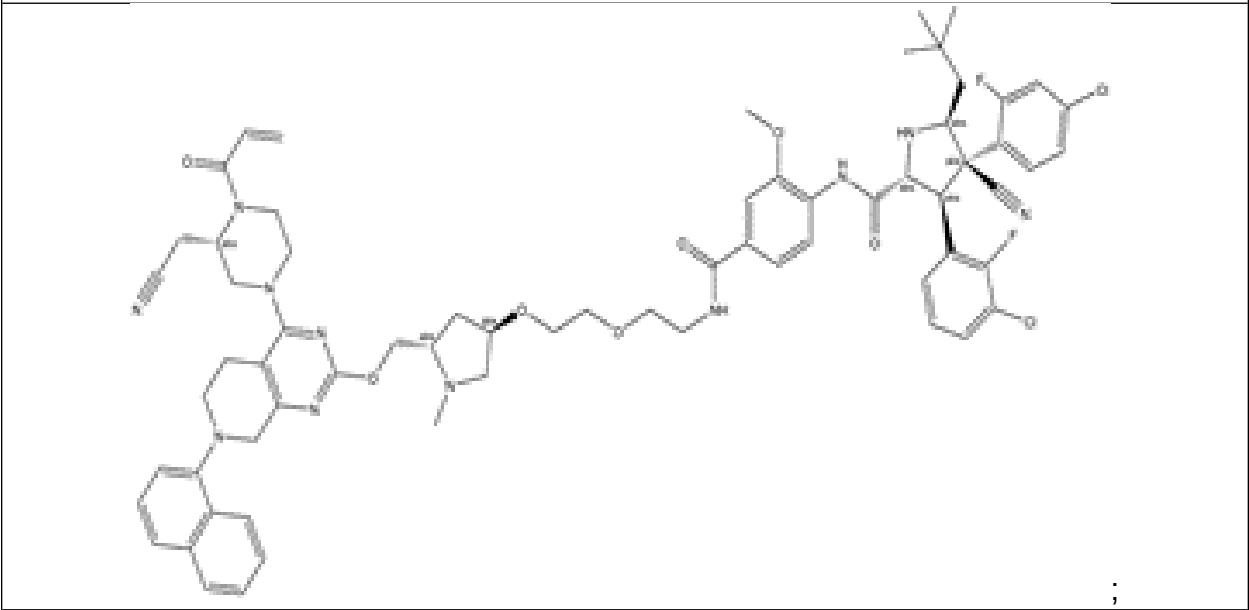
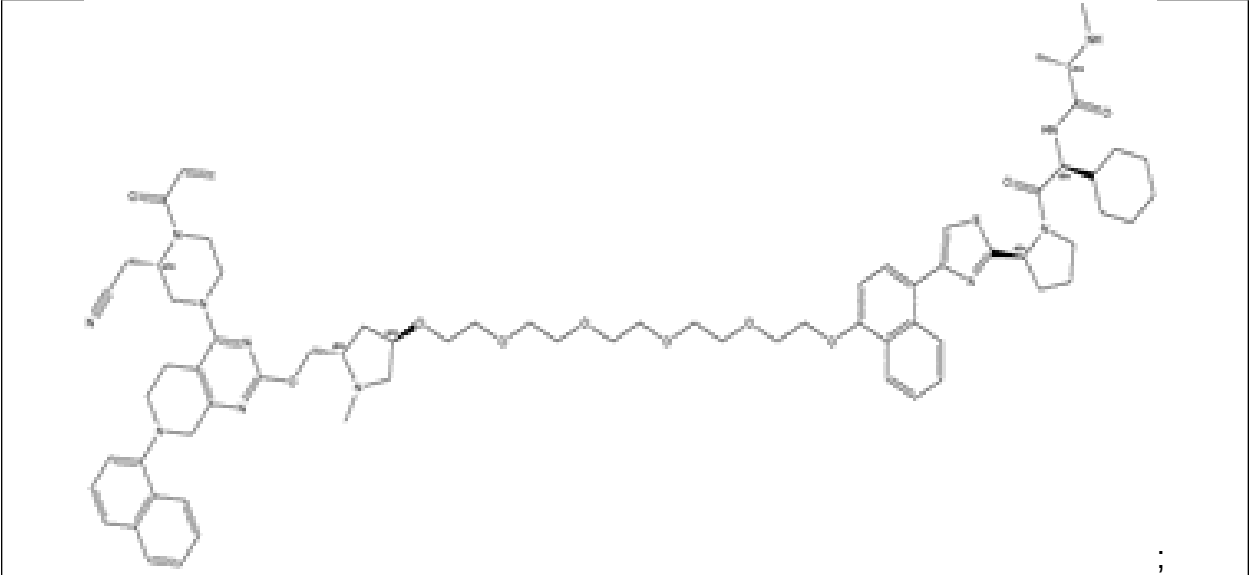


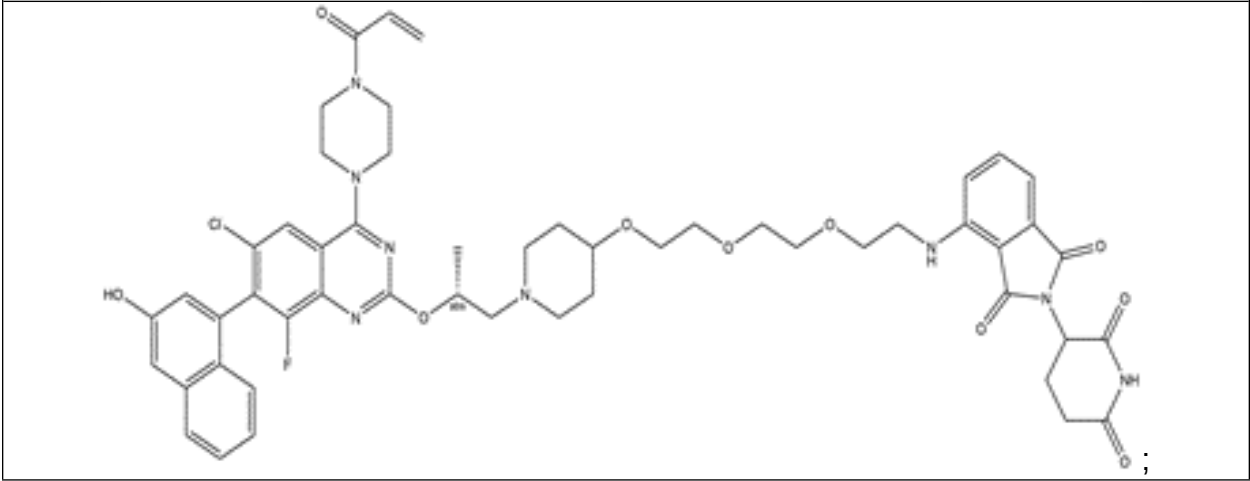
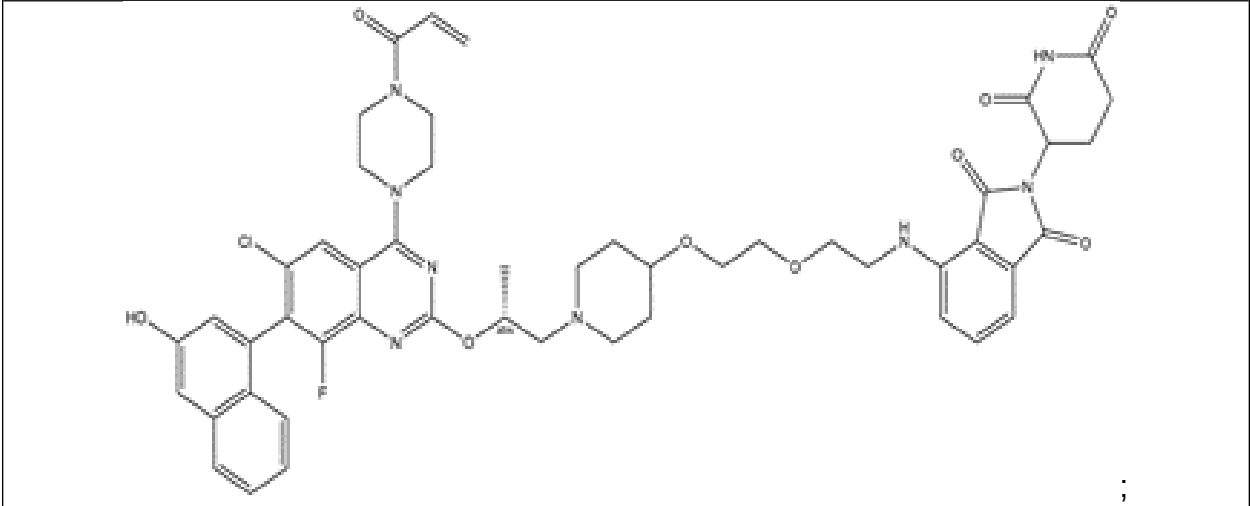
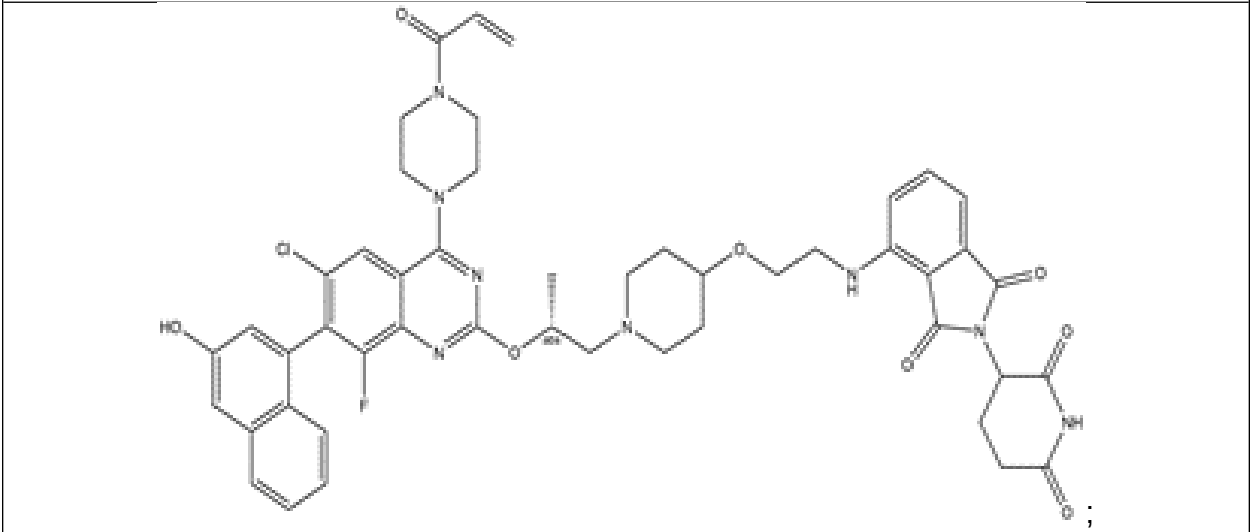
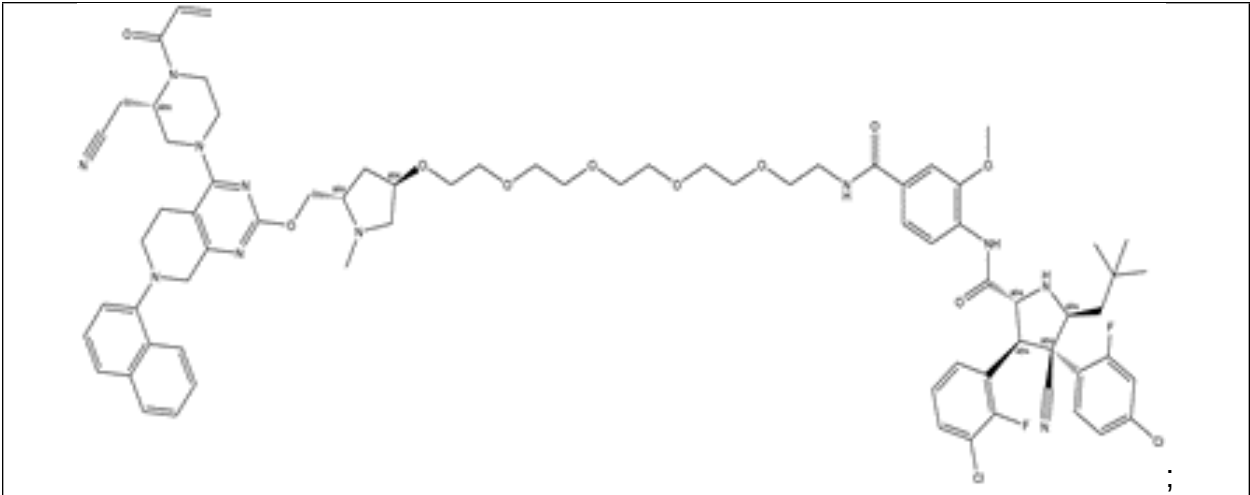


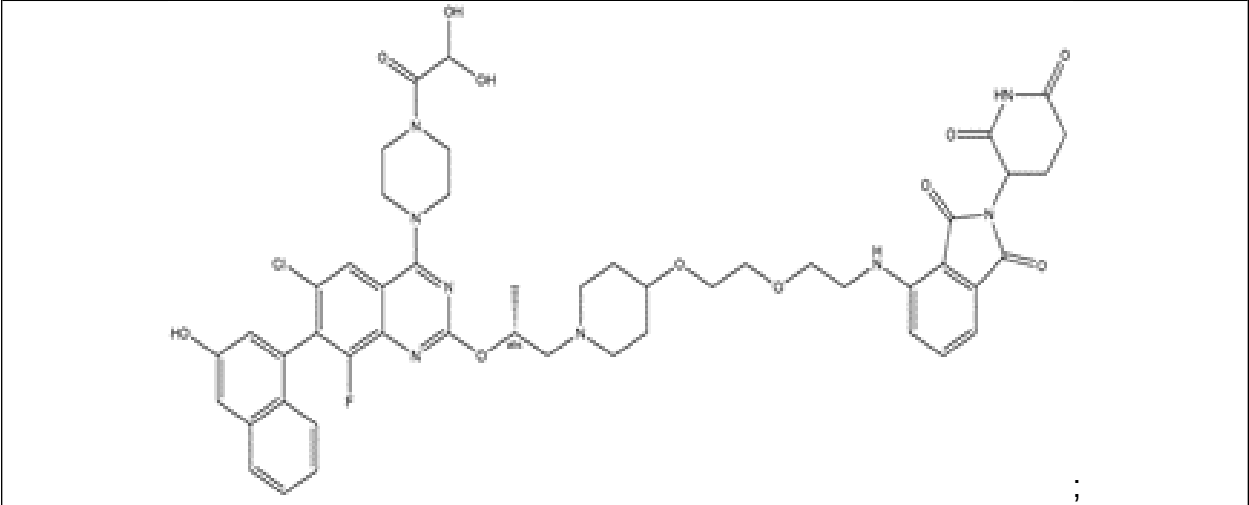
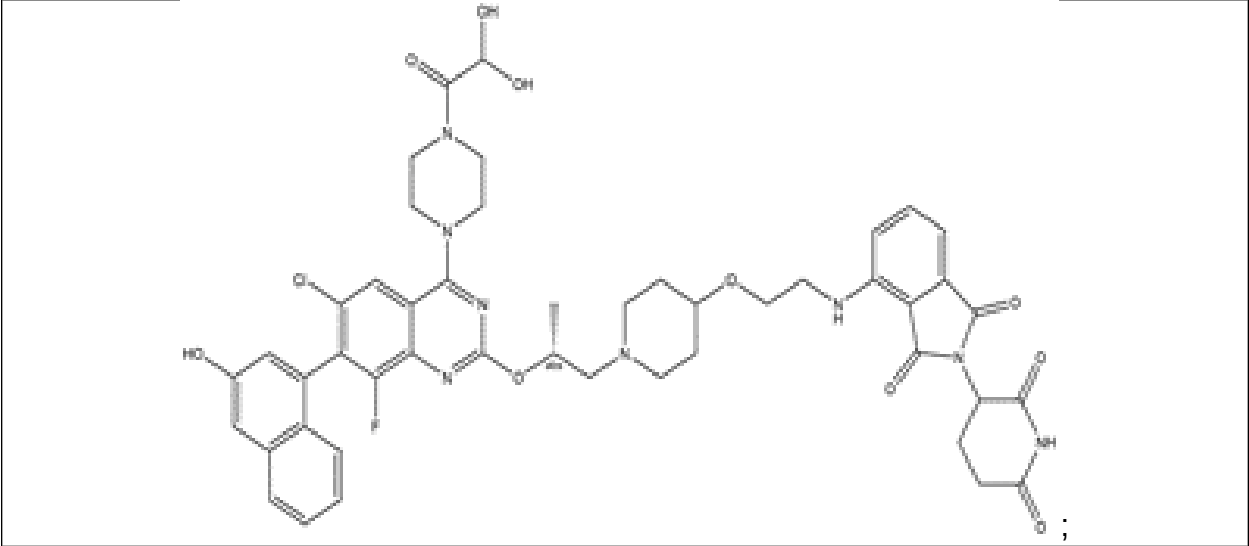
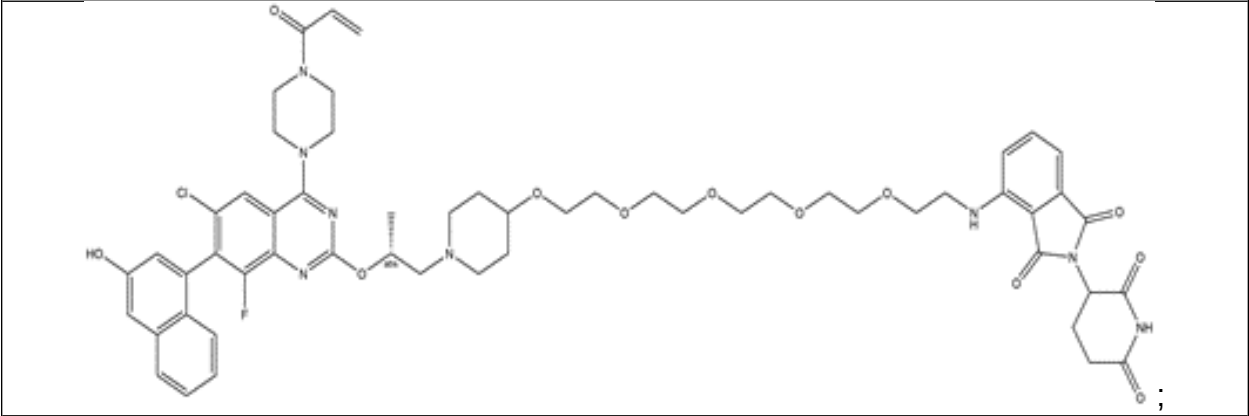
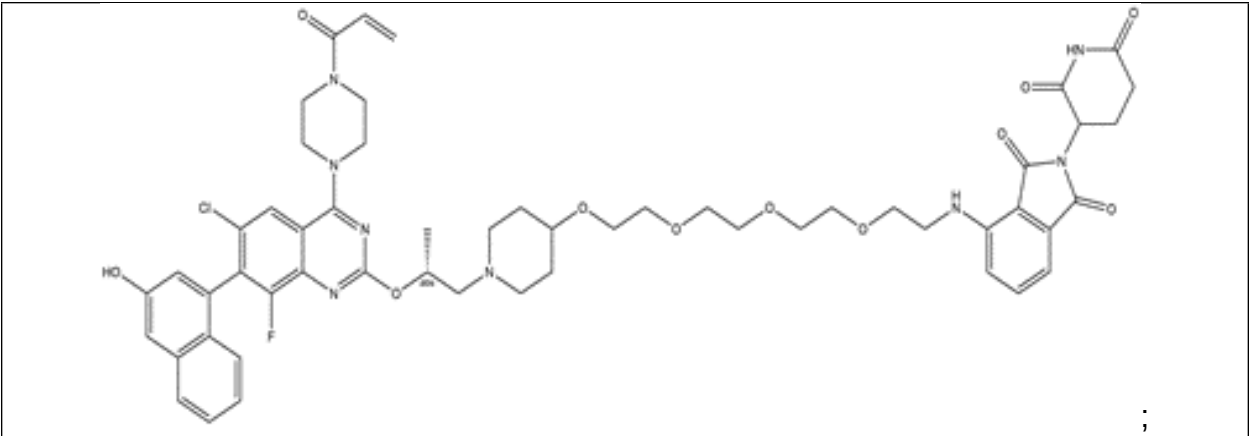


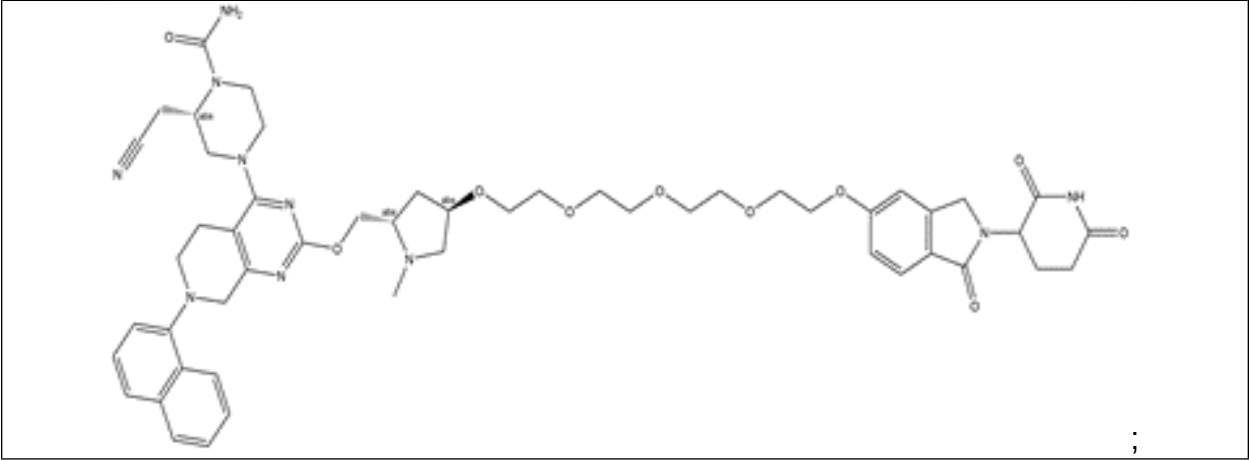
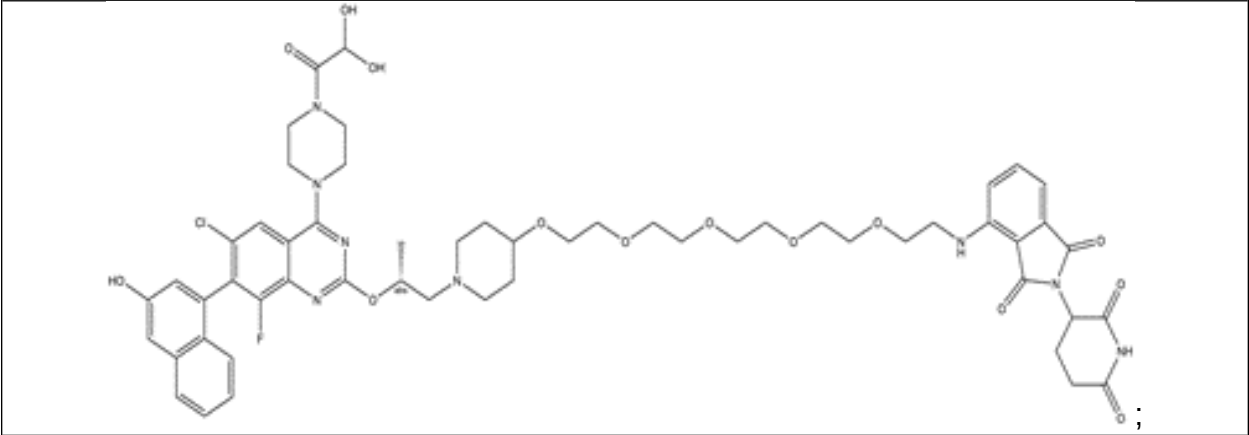
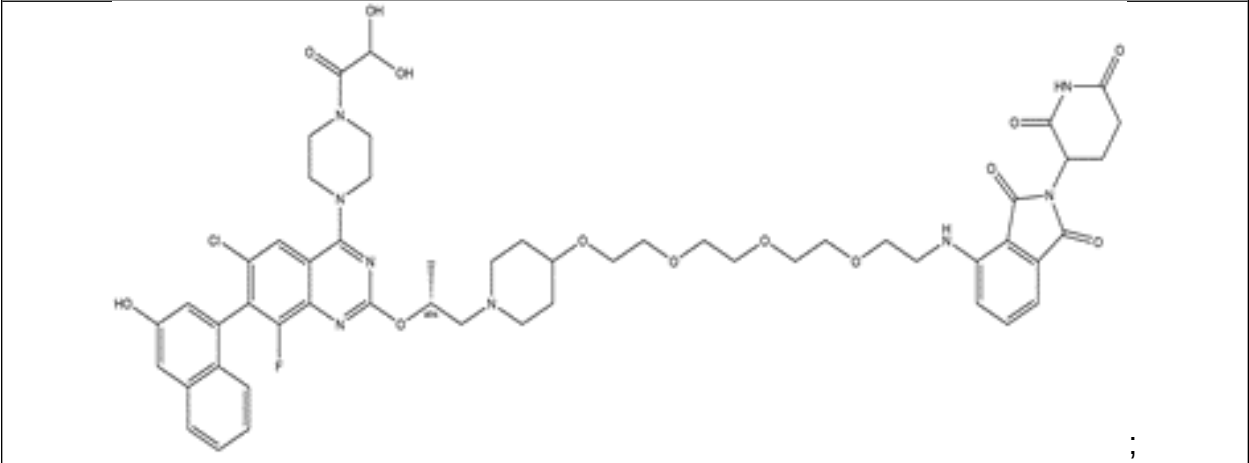
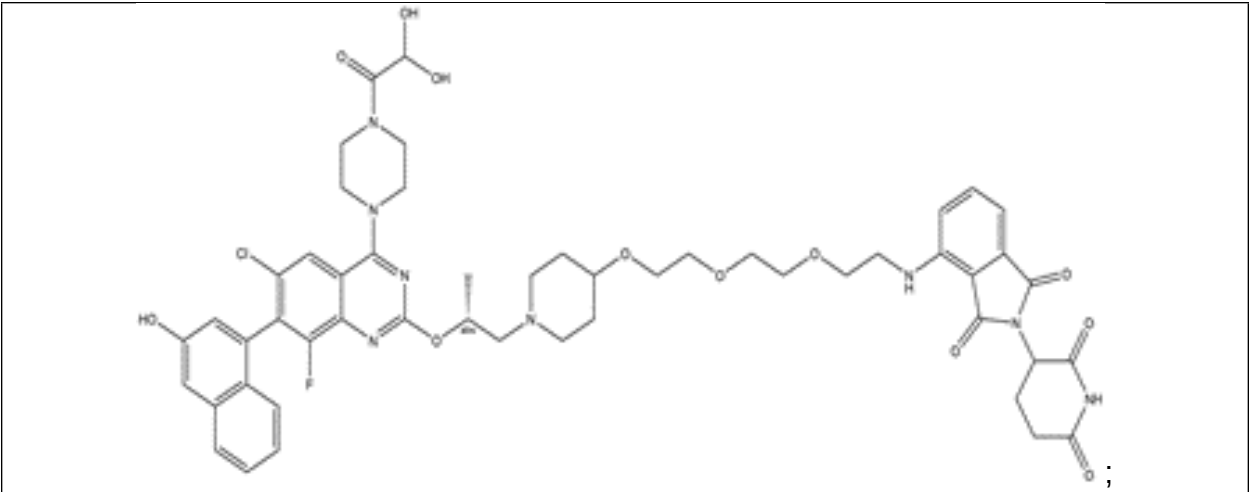


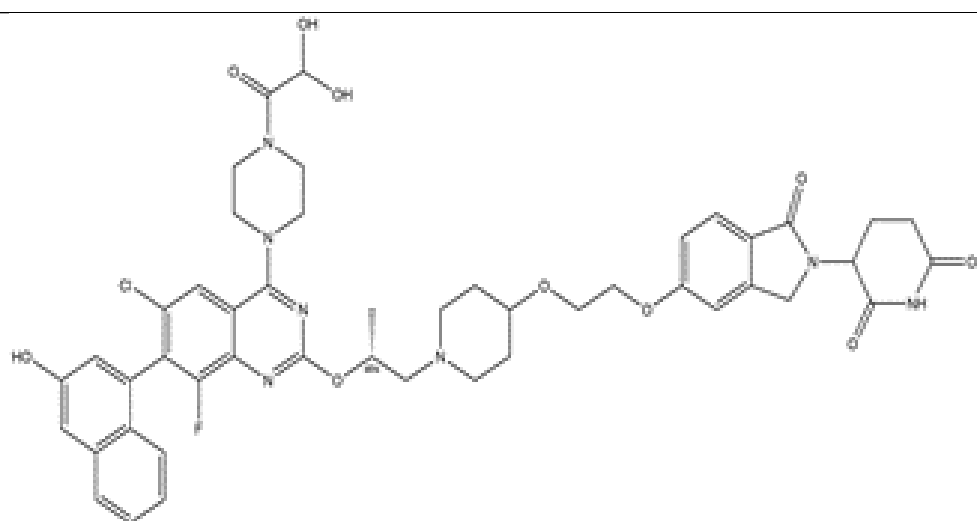




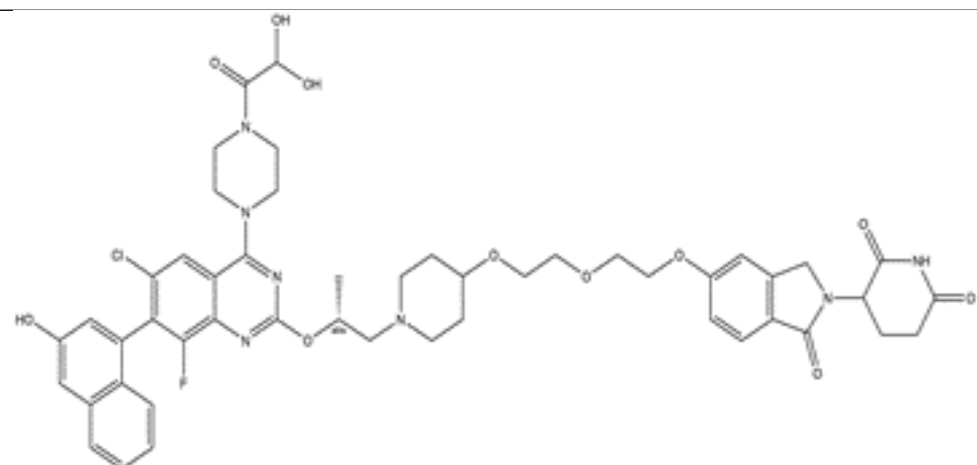




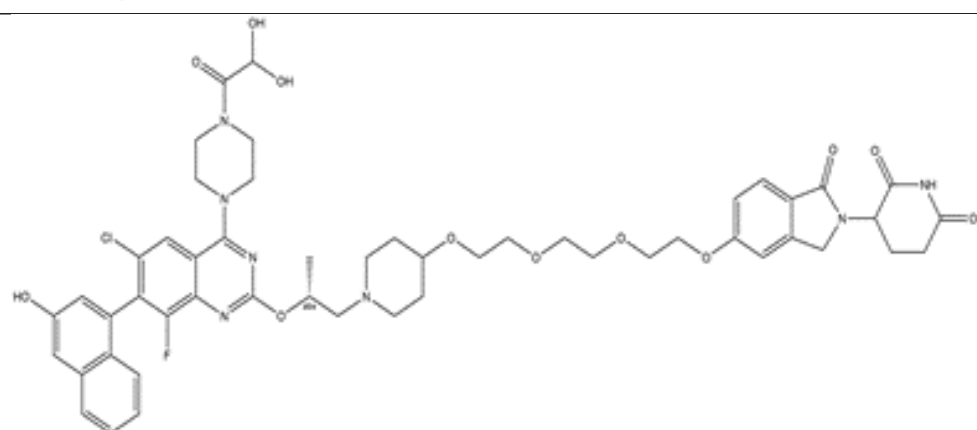




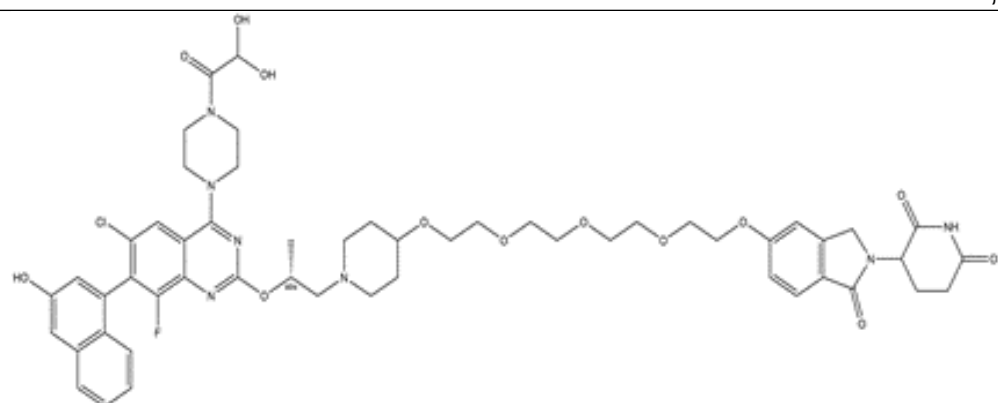
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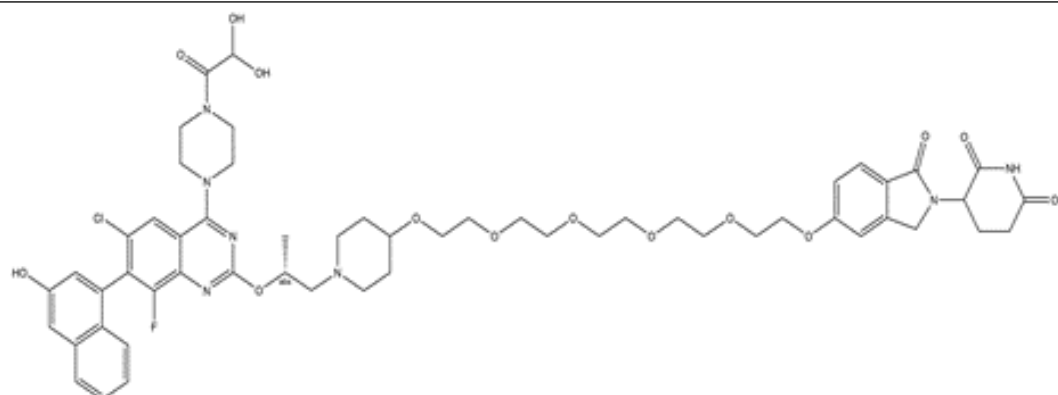
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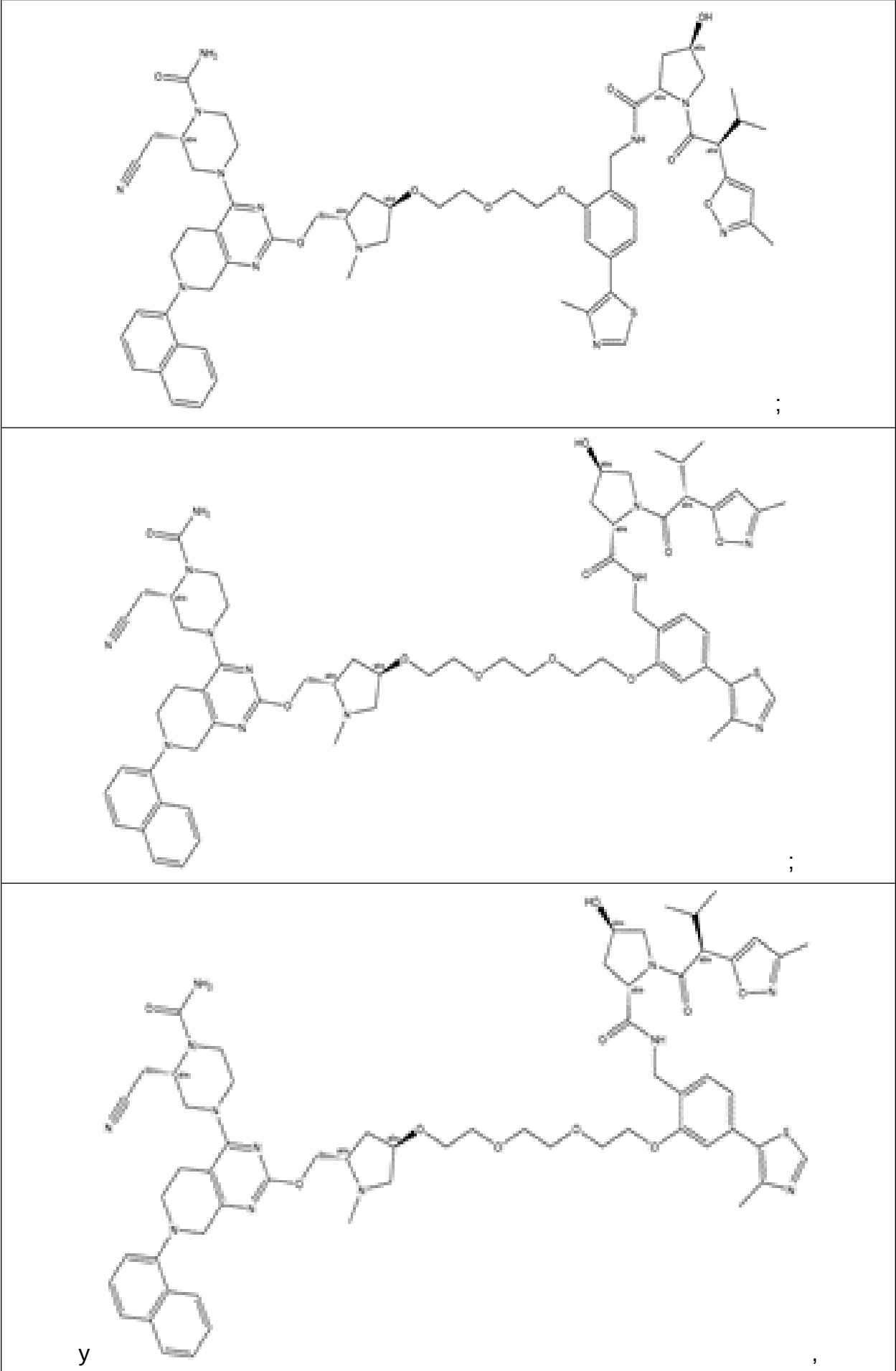
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o una sal farmacéuticamente aceptable de este.

13. Una composición farmacéutica que comprende un compuesto bifuncional de cualquiera de las reivindicaciones 1 a 3, y 5 a 12 y un portalineador farmacéuticamente aceptable.
14. La composición farmacéutica de la reivindicación 13, donde la composición comprende además un agente bioactivo adicional.

15. La composición farmacéutica de la reivindicación 14, en donde el agente bioactivo adicional es un agente contra el cáncer.

16. La composición farmacéutica de la reivindicación 15, en donde el agente contra el cáncer es un inhibidor de receptores del factor de crecimiento epidérmico.