

Title: CERTAIN THIENOPYRIMIDINE DERIVATIVES AS PHOSPHODIESTERASE 10 **INHIBITORS**

Abstract: Source: US2007259896A Certain thienopyrimidine derivatives are useful for the inhibition of **PDE10** enzymes, and thus are useful for treating psychiatric or neurological syndromes, e.g., psychoses, obsessive-compulsive disorder and/or Parkinson's disease, as well as, for example, treating a disease state modulated by **PDE10** activity.

Classifications:

International (IPC 8-9): A61K31/495 A61K31/519 A61K31/5355 A61P25/00 A61P25/08 A61P25/14 A61P25/16 A61P25/18 A61P25/22 A61P25/28 A61P3/04 A61P3/10 A61P43/00 A61P7/12 C07D413/12 C07D495/04 (Advanced/Invention); A61P25/18 A61P25/28 (Advanced/Non-invention); A61K31/00 A61K31/495 A61K31/519 A61P25/00 A61P3/00 A61P43/00 A61P7/00 C07D495/00 (Core/Invention)

CPC: C07D495/04

European: C07D495/04

US: 514/234.2 514/260.1 514/260.100P 544/118 544/235 544/235S 544/278

Family:

Publication number	Publication date	Application number	Application date
AU2005321903 AA	20060706	AU20050321903	20051227
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MX2007007387 A1	20070803	MX20070007387	20070619
US2007259896 AA	20071108	US20050317907	20051222
US2010010017 AA	20100114	US20090494057	20090629
US7576080 BB	20090818	US20050317907	20051222
WO06071988 A1	20060706	WO2005US47439	20051227

Priority:

US20040638179P 20041223 US20050317907 20051222 WO2005US47439 20051227

US20090494057 20090629

Probable Assignee: MEMORY PHARMACEUTICALS CORP

Assignee(s): (std): ARRINGTON MARK P ; ARRINGTON MARK PHILLIP ; HOPPER ALLEN ; LIU RUIPING ; MEMORY PHARM CORP ; MEMORY PHARMACEUTICAL CORP ; MEMORY PHARMACEUTICALS CORP ; TEHIM ASHOK

Inventor(s): (std): ARRINGTON MARK P ; ARRINGTON MARK PHILLIP ; HOPPER ALLEN ; LIU RUIPING ; TEHIM ASHOK

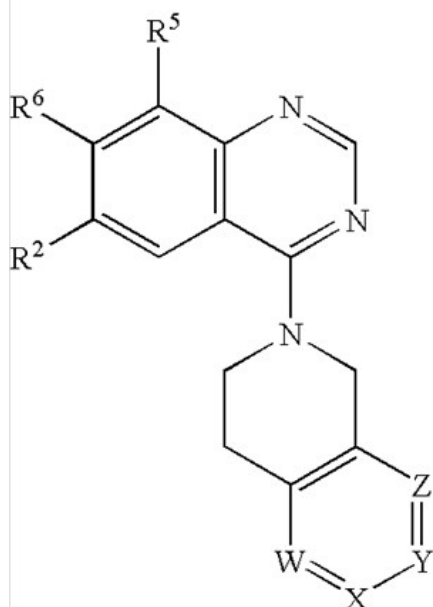
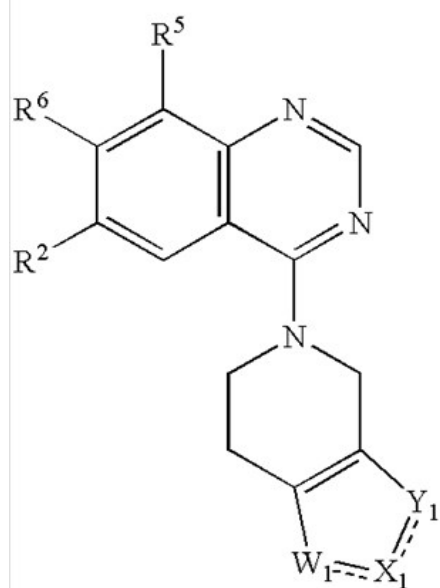
Inventor(s): MARK PHILLIP ARRINGTON ; RUIPING LIU ; ASHOK TEHIM ; ALLEN HOPPER ; ARRINGTON MARK

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; DARBY AND DARBY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SUBSTITUTED QUINAZOLINES AS **PDE10 INHIBITORS**

Abstract: Source: US2009023756A The invention pertains to substituted quinazoline compounds of structures (I) and (II) that serve as effective phosphodiesterase (PDE) **inhibitors**. The invention also relates to compounds which are selective **inhibitors** of PDE-10. The invention further relates to intermediates for preparation of such compounds; pharmaceutical compositions comprising such compounds; and the use of such compounds in methods for treating certain central nervous system (CNS) or other disorders. The invention relates also to methods for treating neurodegenerative and psychiatric disorders, for example psychosis and disorders comprising deficient cognition as a symptom. (I, II).

**Classifications:**

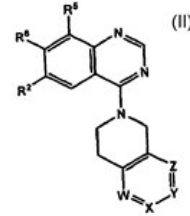
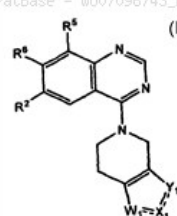
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CPC: C07D471/04 C07D471/14

European: C07D471/04 C07D471/14

US: 514/264.1 514/264.100P 514/266.21 514/266.210S 544/279 544/279S 544/284 544/284S

PatBase - W007096743_A1

**Family:**

Publication number	Publication date	Application number	Application date
CA2641670 AA	20080806	CA20072641670	20070209
EP1996587 A1	20081203	EP20070705627	20070209
JP2009527542 T2	20090730	JP20080555892T	20070209
US2009023756 AA	20090122	US20070279869	20070209
W007096743 A1	20070830	W02007IB00411	20070209

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W02007IB00411 20070209

US20070279869 20070209

Probable Assignee: PFIZER

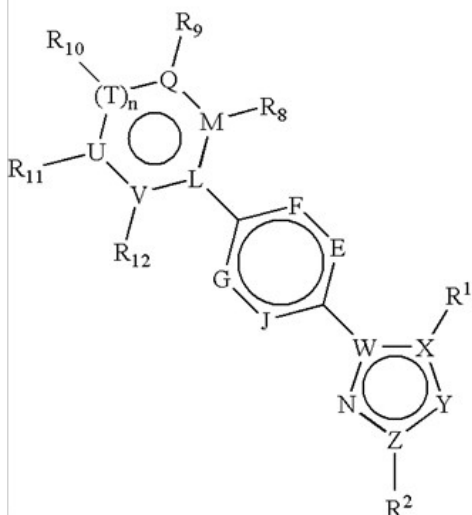
Assignee(s): (std): ALLEN MARTIN PATRICK ; CHAPPIE THOMAS ALLEN ; HUMPHREY JOHN MICHAEL ; LIRAS SPIROS ; PFIZER PROD INC ; PFIZER

Assignee(s): PFIZER INC ; PFIZER PRODUCTS INC

Inventor(s): (std): ALLEN MARTIN PATRICK ; CHAPPIE THOMAS ALLEN ; HUMPHREY JOHN MICHAEL ; LIRAS SPIROS

Agent(s): HODGE EMMA JANE; PFIZER INC STEVE T ZELSON

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SELECTIVE AZOLE PDE10A INHIBITOR COMPOUNDS**Abstract:** Source: US2008090834A The invention pertains to heteroaromatic compounds of the formula I,

as defined herein, that serve as effective phosphodiesterase (PDE) **inhibitors**. In particular, the invention relates to said compounds which are selective **inhibitors** of **PDE10**. The invention also relates to pharmaceutical compositions comprising said compounds; and the use of said compounds in a method for treating certain central nervous system (CNS) or other disorders.

Classifications:

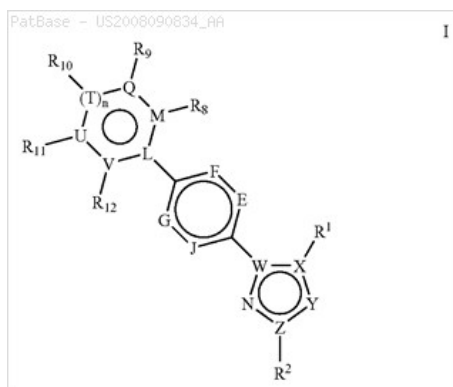
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International (IPC 1-7): A61K31/382 A61K31/407 A61K31/4155 A61K31/4192 A61K31/437 A61P25/14 A61P25/18 A61P25/22 A61P25/28 C07D209/00 C07D221/00 C07D235/00 C07D239/00 C07D335/00 C07D401/14 C07D409/14 C07D471/04 C07D487/04 C07D495/14

CPC: C07D401/10 C07D471/04 C07D495/14

European: C07D401/10 C07D471/04 C07D495/14

US: 514/253.06 514/253.060P 514/255.05 514/255.050S 514/256 514/256S 514/263.22 514/263.220S 514/293 514/293S 514/300 514/300S 514/303 514/303S 514/333 514/333S 514/394 514/394S 544/277 544/277S 544/328 544/328S 544/363 544/363S 544/405 544/405S 546/113 546/113S 546/118 546/118S 546/256 546/256S 546/83 546/83S 548/306.1 548/306.100S

**Family:**

Publication number	Publication date	Application number	Application date
AR061846 AA	20080924	AR2007P103037	20070706
TW200813048 A	20080316	TW20070124762	20070706
US2008090834 AA	20080417	US20070770793	20070629
WO08004117 A1	20080110	WO2007I802000	20070706

Priority:

US20060819554P 20060706 US20070770793 20070629

Probable Assignee: PFIZER

Assignee(s): (std): HOOVER DENNIS JAY ; PFIZER ; PFIZER PROD INC ; WITTER KEVIN G

Assignee(s): PFIZER PRODUCTS INC ; PFIZER INC

Inventor(s): (std): HOOVER DENNIS J ; HOOVER DENNIS JAY ; WITTER KEVIN G

Agent(s): PFIZER INC STEVE T ZELSON; FULLER GROVER F JR ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PYRIDO[3,2-E]PYRAZINES, PROCESS FOR PREPARING THE SAME, AND THEIR USE AS **INHIBITORS** OF PHOSPHODIESTERASE 10

Abstract: Source: US2009143361A The invention relates to pyrido[3,2-e]pyrazines, to processes for preparing them, to pharmaceutical compositions which comprise these compounds and to the pharmaceutical use of these compounds, which are **inhibitors** of phosphodiesterase 10, as active compounds for treating central nervous system disorders, obesity, and metabolic disorders.

Classifications:

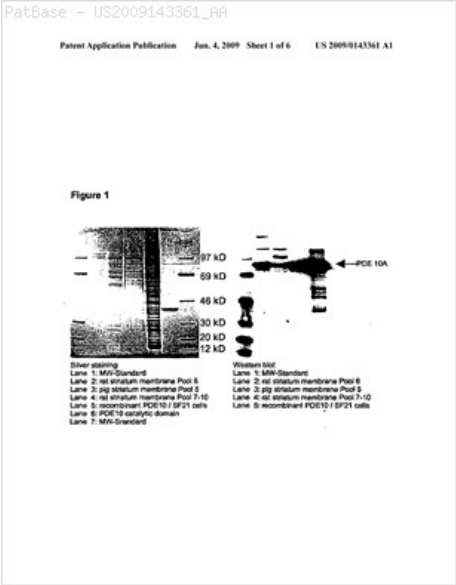
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International (IPC 1-7): A61K31/4985 A61P25/00 C07D471/14

CPC: C07D471/14

European: C07D471/14

US: 514/217 514/221 514/221S 514/233.2 514/233.200S 514/250 514/250S 540/570 540/570S 540/589 540/589S 544/115 544/115S 544/295 544/295S 544/346 544/346S



Family:

Publication number	Publication date	Application number	Application date
AR069509 AA	20100127	AR2008P105222	20081128
PE10562009 A1	20090820	PE20080002004	20081201
US2009143361 AA	20090604	US20080277961	20081125
WO09070583 A1	20090604	WO2008US84688	20081125

Priority:

US20070004954P 20071130 US20080277961 20081125

Probable Assignee: ELBION GMBH

Assignee(s): (std): EGERLAND UTE ; ELBION GMBH ; ERDEI JAMES JOSEPH ; HOFGEN NORBERT ; LANGEN BARBARA ; MALAMAS MICHAEL S ; WYETH CORP ; NI YIKE ; STANGE HANS ; SCHINDLER RUDOLF

Assignee(s): WYETH

Inventor(s): (std): EGERLAND UTE ; ERDEI JAMES JOSEPH ; HOFGEN NORBERT ; HOFGEN NORBERT ; LANGEN BARBARA ; MALAMAS MICHAEL S ; NI YIKE ; SCHINDLER RUDOLF ; STANGE HANS

Agent(s): FISH AND RICHARDSON PC; GODDARD CHRISTINE A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: NEW COMPOUNDS FOR THE TREATMENT OF CNS DISORDERS

Abstract: Source: US2011082137A The invention relates to novel 1,6-disubstituted pyrazolopyrimidinones of formula (I), in which Hc is a tetrahydropyranyl-group and R1 is the group V-W-ss, whereby V and W independently of each other may be an aryl group or an heteroaryl group, which independently of each other may optionally be substituted. According to one aspect of the invention the new compounds are for use as medicaments or for the manufacture of medicaments, in particular medicaments for the treatment of conditions concerning deficits in perception, concentration, learning or memory. The new compounds are also for the manufacture of medicaments and/or for use in the treatment of e.g. Alzheimer's disease, in particular for cognitive impairment associated with Alzheimer's disease.

Classifications:

International (IPC 8-9): A61K31/4162 A61K31/519 A61K31/5377 A61K45/00 A61P1/04 A61P11/00 A61P15/08 A61P21/00 A61P25/00 A61P25/08 A61P25/14 A61P25/16 A61P25/18 A61P25/20 A61P25/28 A61P3/04 A61P3/06 A61P3/10 A61P43/00 A61P9/00 C07D C07D207/16 C07D207/30 C07D211/56 C07D213/04 C07D231/00 C07D231/10 C07D237/06 C07D239/00 C07D239/24 C07D239/30 C07D239/36 C07D249/08 C07D271/06 C07D277/20 C07D307/04 C07D307/34 C07D309/14 C07D487/04 (Advanced/Invention); A61K31/519 A61P25/00 A61P25/08 A61P25/16 A61P25/18 A61P25/28 C07D487/04 (Advanced/Non-invention); A61K31/00 A61K31/519 C07D487/00 C07D487/04 (Core/Invention); A61K31/519 A61P25/00 A61P25/08 A61P25/18 A61P25/28 C07D487/04 (Core/Non-invention); C07D (Subclass/Invention)

International (IPC 1-7): A61K31/4162 A61K31/519 A61K31/522 A61P25/08 A61P25/16 A61P25/18 A61P25/28 C07D473/26 C07D487/04

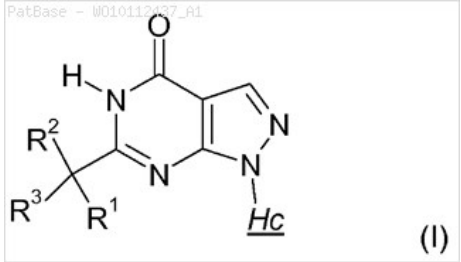
CPC: C07D487/04 A61K31/519

European: C07D487/04

US: 514/234.2 514/234.200P 514/248 514/252.02 514/252.020S 514/261.1 514/262.1 514/262.100P 514/262.100S 514/359 514/403 514/405 514/406 514/453 544/118 544/118S 544/233 544/238 544/238S 544/262 544/262S

Family:

Publication number	Publication date	Application number	Application date
AP201105819 A0	20110831	AP20110005819	20100326
AR071577 AA	20100630	AR2009P101179	20090401
AR076171 AA	20110526	AR2010P101040	20100330
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IL214436 A0	20110927	IL20110214436	20110803
IN07528DN2011 A	20121228	IN2011DN07528	20110930
JP2011516454 T2	20110526	JP20110502384T	20090401
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UY31748 A1	20091110	UY20090031748	20090402
UY32531 A1	20101029	UY20100032531	20100326
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Priority:

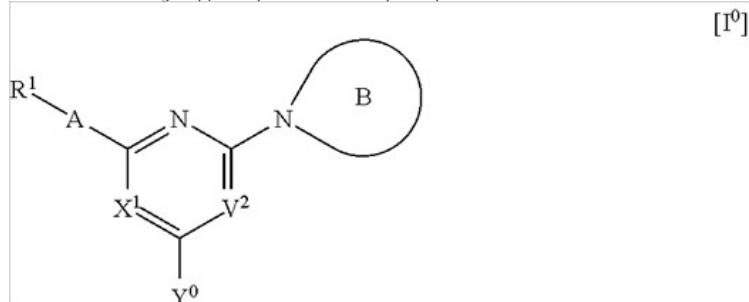
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Probable Assignee: BOEHRINGER INGELHEIM INT GMBH

- Assignee(s):** (std): BOEHRINGER ENGELHEIM INT GMBH ; BOEHRINGER ENGELHEIM INTERNAT GMBH ; EICKMEIER CHRISTIAN ; FIEGEN DENNIS ; DOERNER CIOSEK CORNELIA ; DORNER CIOSEK CORNELIA ; BOHERINGER INGELHEIM INTERNAT GMBH ; BOEHRINGER SOHN INGELHEIM ; BOHERINGER INGELHEIM INT GMBH ; FUCHS KLAUS ; HEINE NIKLAS ; FOX THOMAS ; SCHAEENZLE GERHARD ; ROSENBROCK HOLGER ; GIOVANNINI RICCARDO ; MAJDOUBI SIHAM TARIK GROUPE ; BOEHRINGER INGELHEIM INT
- Assignee(s):** BOEHRINGER INGELHEIM INTERNATIONAL GMBH ; BOEHRINGER INGELHEIM INT GMBH ; BOHERINGER INGELHEIM INTERNATIONAL GMBH ; BOEHRINGER ENGELHEIM INTERNATIONAL GMBH ; BOEHRINGER INGELHEIM GMBH
- Inventor(s):** (std): DORNER CIOSEK CORNELIA ; THOMAS FOX ; RICCARDO GIOVANNINI ; NIKLAS HEINE ; KLAUS FUCHS ; HOLGER ROSENBROCK ; GERHARD SCHAEENZLE ; DENNIS FIEGEN ; CORNELIA DOERNER CIOSEK ; CHRISTIAN EICKMEIER ; SCHAEENZLE GERHARD ; ROSENBROCK HOLGER ; HEINE NIKLAS ; GIOVANNINI RICCARDO ; FUCHS KLAUS ; FUCHS DR KLAUS ; FOX THOMAS ; FIEGEN DENNIS ; EICKMEIER CHRISTIAN ; DOERNER CIOSEK CORNELIA ; CORNELIA DORNER CIOSEK
- Inventor(s):** DR KLAUS FUCHS ; DORNER-CIOSEK, Cornelia ; EICKMEIER, Christian ; FIEGEN, Dennis ; FOX, Thomas ; FUCHS, Klaus ; GIOVANNINI, Riccardo ; HEINE, Niklas ; ROSENBROCK, Holger ; SCHAEENZLE, Gerhard
- Agent(s):** HAMMANN HEINZ; SIMON ELKE ANNA MARIA; EDWARD S; MICHAEL P; HAMMANN HEINZ ET AL; HAMMANN ET AL HEINZ ET AL
- Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

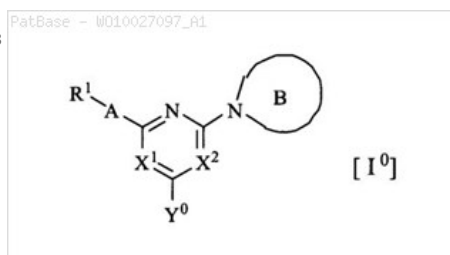
Title: TRI-SUBSTITUTED **PYRIMIDINE** COMPOUNDS AND THEIR USE AS **PDE10 INHIBITORS**

Abstract: Source: US2011160206A The present invention provides a tri-substituted **pyrimidine** compound having an excellent **PDE10** inhibitory activity. The present invention relates to a tri-substituted **pyrimidine** compound represented by the following formula [I⁰] or a pharmaceutically acceptable salt thereof, a method for preparing the same, and use of said compound for **PDE10** inhibitor, and a pharmaceutical composition comprising said compounds as an active ingredient: wherein: either one of X¹ and X² is N, and the other of X¹ and X² is CH; A is ss-CH-CH-, ss-C(Alk)=CH-, ss-CH₂-CH₂- or ss-O-CH₂- (ss is a bond with R¹); Alk is a lower alkyl group; Ring B is an optionally substituted nitrogen-containing aliphatic heterocyclic group; R¹ is an optionally substituted quinoxalyl or an optionally substituted quinolyl; Y⁰ is mono- or di-substituted amino group, or a pharmaceutically acceptable salt thereof.



Classifications:

International (IPC 8-9): A61K31/498 A61K31/506 A61K31/5377 A61P25/00 A61P25/18 A61P25/22 A61P25/28 A61P25/30 C07D239/48 C07D241/42 C07D241/44 C07D401/14 C07D403/06 C07D403/14 C07D405/14 C07D409/14 C07D413/14 (Advanced/Invention); A61K31/506 A61K31/5377 A61P25/00 A61P25/18 A61P25/20 A61P25/22 A61P25/28 A61P25/30 A61P43/00 C07D403/14 C07D405/14 (Advanced/Non-invention); A61K31/506 A61P25/00 C07D239/00 C07D241/00 (Core/Invention); C07D401/14 (Core/Non-invention)
CPC: C07D403/14 C07D405/14 C07D409/14 C07D413/14
European: C07D403/14 C07D405/14 C07D409/14 C07D413/14
US: 514/234.8 514/234.800P 514/249 514/249S 514/256 514/256S 544/116 544/116S 544/295 544/295S 544/326 544/326S



Family:

Publication number	Publication date	Application number	Application date
AU2009287621 AA	20100311	AU20090287621	20090903
AU2009287621 BB	20120920	AU20090287621	20090903
CA2736281 AA	20110304	CA20092736281	20090903
CA2736281 C	20130820	CA20092736281	20090903
CN102143951 A	20110803	CN200980134752	20090903
EP2350027 A1	20110803	EP20090788062	20090903
IN02410DN2011 A	20120330	IN2011DN02410	20110401
JP2012501961 T2	20120126	JP20110510752T	20090903
JP5290406 B2	20130918	JP20110510752T	20090903
KR101324329 B1	20131031	KR20117007611	20090903
KR20110048076 A	20110509	KR20117007611	20090903
MX2011002399 A1	20110407	MX20110002399	20110303
TW201014841 A	20100416	TW20090129656	20090903
US2011160206 AA	20110630	US20090062074	20090903
WO10027097 A1	20100311	WO2009JP65778	20090903

Priority:

US20080094166P 20080904 US20080094166 20080904 WO2009JP65778 20090903

Probable Assignee: MITSUBISHI TANABE PHARMA CORP

Assignee(s): (std): KAWANISHI EIJI ; MATSUMURA TAKEHIKO ; MITSUBISHI TANABE PHARMA CORP

Assignee(s): MITSUBISHI TANABE PHARMA CORPORATIONJP

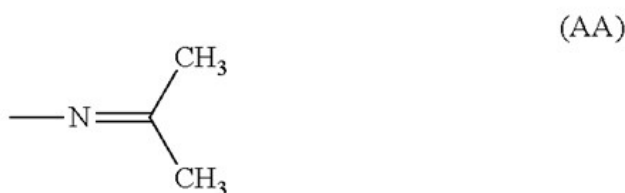
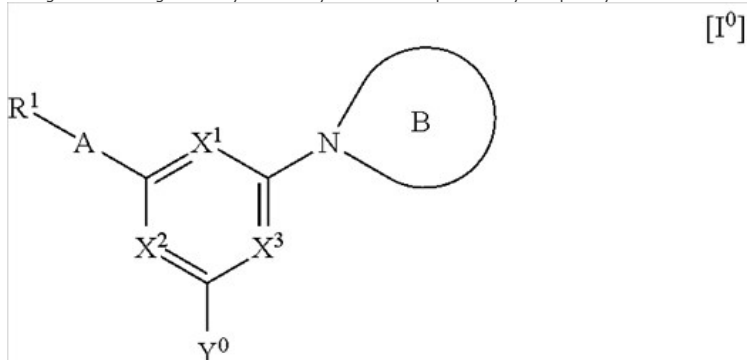
Inventor(s): (std): EIJI KAWANISHI ; KAWANISHI EIJI ; MATSUMURA TAKEHIKO ; TAKEHIKO MATSUMURA

Agent(s): HOFFMANN EITL; TSUKUNI HAJIME

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

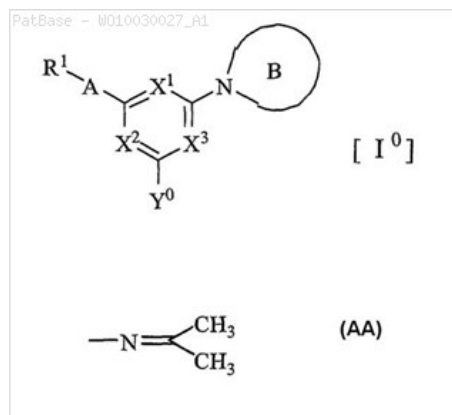
Title: AROMATIC NITROGEN-CONTAINING 6-MEMBERED RING COMPOUNDS AND THEIR USE

Abstract: Source: US2011166135A The present invention provides aromatic nitrogen-containing 6-membered ring compounds having excellent **PDE10** inhibitory activity. The present invention relates to an aromatic nitrogen-containing 6-membered ring compound represented by the following formula [I⁰] or a pharmaceutically acceptable salt thereof, a method for preparing the same, and use of said compounds for **PDE10** inhibitors, and a pharmaceutical composition comprising said compounds as an active ingredient: Formula [I⁰] wherein: X¹, X² and X³ each independently are N or CH, and at least two of X¹, X² and X³ are N; A is ss-CH-CH-, ss-C(Alk)=CH-, ss-CH₂-CH₂- or ss-O-CH₂- (ss is a bond with R¹); Alk is a lower alkyl group; Ring B is an optionally substituted nitrogen-containing aliphatic heterocyclic group; R¹ is an optionally substituted nitrogen-containing heterocyclic group, a nitrogen-containing heterocyclic moiety of which is a moiety selected from the group consisting of quinoxaliny, quinoly, isoquinoly, quinazoliny, pyraziny, pyrimidiny and a moiety thereof fused with a 5 to 6-membered aliphatic ring thereto; Y⁰ is a group selected from the group consisting of the following (1) to (5): (1) an optionally substituted phenyl or an optionally substituted aromatic monocyclic 5 to 6-membered heterocyclic group; (2) an optionally substituted aminocarbonyl; (3) an optionally substituted amino lower alkyl; (4) -O-R² wherein R² is hydrogen, an optionally substituted lower alkyl, lower cycloalkyl, aliphatic monocyclic 5 to 6-membered heterocyclic group, or Formula [AA]; (5) mono- or di-substituted amino; provided that, when Y⁰ is mono- or di-substituted amino, the nitrogen-containing heterocyclic moiety of R¹ is not quinoxaliny or quinoly.



Classifications:

International (IPC 8-9): A61K31/497 A61K31/502 A61K31/505 A61K31/506 A61K31/517 A61K31/519 A61K31/5377 A61K31/541 A61K31/553 A61P25/00 A61P25/16 A61P25/18 A61P25/22 A61P25/24 A61P25/28 A61P25/30 A61P43/00 C07D401/06 C07D401/12 C07D401/14 C07D403/06 C07D403/12 C07D403/14 C07D405/12 C07D405/14 C07D409/14 C07D413/14 C07D487/04 (Advanced/Invention); A61K31/502 A61K31/505 C07D401/00 C07D403/00 C07D405/00 (Core/Invention)
CPC: C07D401/12 C07D401/14 C07D403/12 C07D403/14 C07D405/12
European: C07D401/12 C07D401/14 C07D403/12 C07D403/14 C07D405/12
US: 514/234.2 514/234.200P 514/255.05 514/255.050S 514/256 514/256S 514/265.1 514/265.100S 514/266.2 514/266.200S 544/116 544/116S 544/280 544/280S 544/284 544/284S 544/333 544/333S 544/405 544/405S



Family:

Publication number	Publication date	Application number	Application date
EP2342191 A1	20110713	EP20090788067	20090909
EP2342191 B1	20130320	EP20090788067	20090909
ES2412780 T3	20130712	ES20090788067T	20090909
JP2012501962 T2	20120126	JP20110511553T	20090909
US2011166135 AA	20110707	US20090062841	20090909
W010030027 A1	20100318	W02009JP66051	20090909

Priority:

US20080095765P 20080910 WO2009JP66051 20090909 US20090062841 20090909
 EP20090788067 20090909

Probable Assignee: MITSUBISHI TANABE PHARMA CORP

Assignee(s): (std): HIMIYAMA TOSHIYUKI ; KAWANISHI EIJI ; MATSUMURA TAKEHIKO ; MITSUBISHI TANABE PHARMA CORP ; SAKAMOTO TOSHIKI ; MORIMOTO HIROSHI

Inventor(s): (std): HIMIYAMA TOSHIYUKI ; KAWANISHI EIJI ; MATSUMURA TAKEHIKO ; MORIMOTO HIROSHI ; SAKAMOTO TOSHIKI

Agent(s): HOFFMANN EITL; TSUKUNI HAJIME

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL

Title: PYRIDINE AND PYRIMIDINE DERIVATIVES AS PHOSPHODIESTERASE 10 INHIBITORS

Abstract: Source: US2010125062A Pyridine and pyrimidine compounds, and compositions containing them, and processes for preparing such compounds. Provided herein also are methods of treating disorders or diseases treatable by inhibition of PDE10, such as obesity, non-insulin dependent diabetes, schizophrenia, bipolar disorder, obsessive-compulsive disorder, and the like.

Classifications:

International (IPC 8-9): A61K31/397 A61K31/4184 A61K31/437 A61K31/4427 A61K31/4439 A61K31/444 A61K31/4545 A61K31/4709 A61K31/506 A61K31/52 A61K31/5377 A61K31/55 A61P25/00 A61P25/14 A61P25/16 A61P25/18 A61P25/24 A61P25/28 A61P25/30 A61P3/00 A61P43/00 C07D239/02 C07D401/10 C07D401/12 C07D401/14 C07D405/14 C07D409/14 C07D413/12 C07D413/14 C07D417/12 C07D417/14 C07D471/04 C07D473/00 C07D473/32 C07D487/04 (Advanced/Invention); A61K31/4439 A61P25/00 C07D401/10 C07D401/12 (Advanced/Non-invention); A61K31/397 A61K31/4164 A61K31/4353 A61K31/4427 A61K31/519 A61K31/5375 A61K31/55 A61P25/00 A61P3/00 C07D401/00 C07D413/00 C07D417/00 C07D471/00 C07D473/00 (Core/Invention); A61K31/437 A61K31/4427 A61K31/52 A61P25/00 C07D401/12 C07D401/14 C07D417/14 C07D471/04 C07D473/00 C07D487/04 (Core/Non-invention); C07D (Subclass/Invention)

International (IPC 1-7): A61K31/4184 A61P25/18 A61P3/00 C07D401/12 C07D401/14 C07D417/12 C07D471/04 C07D473/00

CPC: C07D413/14 C07D401/12 C07D401/14 C07D417/12 C07D471/04 C07D473/00

European: C07D401/12 C07D401/14 C07D417/12 C07D471/04 C07D473/00

US: 514/210.18 514/210.21 514/210.210P 514/212.08 514/212.080S 514/234.5 514/235.8 514/235.800S 514/253.1 514/256 514/263.22 514/263.220S 514/303 514/303S 514/314 514/318 514/333 514/338 514/338S 540/524 540/524S 544/131 544/131S 544/264 544/277 544/277S 544/333 544/364 546/118 546/118S 546/167 546/194 546/256 546/270.1 546/271.7 546/273.4 546/273.400S 546/319

Family:

Publication number	Publication date	Application number	Application date
AR074343 AA	20110112	AR2009P104404	20091113
AU2009313773 AA	20100520	AU20090313773	20091116
AU2009313773 BB	20130321	AU20090313773	20091116
CA2742833 AA	20100520	CA20092742833	20091116
CA2742833 C	20131231	CA20092742833	20091116
CR20110279 A	20110922	CR20110000279	20110526
EA201100749 A1	20111031	EA20110000749	20091116
EP2364306 A1	20110914	EP20090752706	20091116
EP2364306 B1	20130424	EP20090752706	20091116
ES2413808 T3	20130717	ES20090752706T	20091116
IL212670 A0	20110731	IL20110212670	20110503
IN04419DN2011 A	20130927	IN2011DN04419	20110610
JP2012508777 T2	20120412	JP20110536570T	20091116
KR20110086603 A	20110728	KR20117013477	20091116
MA32891 B1	20111201	MA20110033931	20110610
MX2011005093 A1	20110927	MX20110005093	20110513
TW201030001 A	20100816	TW20090138717	20091113
US2010125062 AA	20100520	US20090619573	20091116
US2013079325 AA	20130328	US20120676826	20121114
US8318718 BB	20121127	US20090619573	20091116
US8759532 BB	20140624	US20120676826	20121114
WO10057126 A1	20100520	WO2009US64643	20091116

Priority:

US20080114595P 20081114 US20090166215P 20090402 WO2009US64643 20091116
US20090619573 20091116 US20120676826 20121114 EP20090752706 20091116

Probable Assignee: AMGEN INC

Assignee(s): (std): BISWAS KAUSTAV ; FROHN MIKE ; DEMORIN FRENEL FILS ; HARRINGTON PAUL ; CHAVEZ FRANK JR ; CHEN NING ; FALSEY JAMES R ; FROHN MICHAEL J ; DE MORIN FRENEL FILS ; HARRINGTON ESSA HU ; CHAVEZ FRANK ; RUMFELT SHANNON ; KALLER MATTHEW R ; REICHELTE ANDREAS ; RZASA ROB ; MONENSCHHEIN HOLGER ; YAO GUOMIN ; NGUYEN TOM ; SHAM KELVIN ; HU ESSA ; KUNZ ROXANNE ; PICKRELL ALEX ; HORNE DAN ; SABA AND CO ; HORNE DANIEL B ; HARRINGTON PAUL E ; RZASA ROBERT M ; PICKRELL ALEXANDER J ; NGUYEN THOMAS T ; KAUSTAV BISWAS ; ALLEN JENNIFER R ; AMEN INC ; AMGEN INC

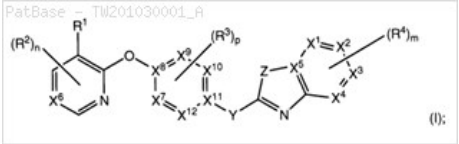
Assignee(s): AMGEN INC US

Inventor(s): (std): BISWAS KAUSTAV ; CHAVEZ FRANK ; CHAVEZ FRANK JR ; CHAVEZ JR FRANK ; CHEN NING ; ALLEN JENNIFER R ; DE MORIN FRENEL FILS ; DEMORIN FRENEL FILS ; FALSEY JAMES R ; FROHN MICHAEL J ; FROHN MIKE ; HARRINGTON ESSA HU ; HARRINGTON PAUL ; HARRINGTON PAUL E ; HORNE DANIEL B ; HU ESSA ; HOME DANIEL B ; HORNE DAN ; KALLER MATTHEW R ; KAUSTAV BISWAS ; KUNZ ROXANNE ; KUNZ ROXANNE K ; MONENSCHHEIN HOLGER ; NGUYEN THOMAS T ; NGUYEN TOM ; YAO GUOMIN ; PICKRELL ALEX ; PICKRELL ALEXANDER J ; REICHELTE ANDREAS ; RUMFELT SHANNON ; RZASA ROB ; RZASA ROBERT M ; SHAM KELVIN

Inventor(s): SHANNON RUMFELT ; TOM NGUYEN ; ROB RZASA ; ROXANNE KUNZ ; ALEX PICKRELL ; NING CHEN ; PAUL E HARRINGTON ; PAUL HARRINGTON ; MATTHEW R KALLER ; MIKE FROHN ; KELVIN SHAM ; HORNE DANIEL ; JAMES R FALSEY ; JENNIFER R ALLEN ; HOLGER MONENSCHHEIN ; GUOMIN YAO ; FRANK CHAVEZ JR ; FRENEL FILS DEMORIN ; ESSA HU ; ANDREAS REICHELTE ; DAN HORNE ; DANIEL B HORNE

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUSSER ANWALTSSOZIALTET ; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUSSER ; AMGEN INC ; ELSA D ; LEMOINE ELSA D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW



Abstract: Source: US2010160280A Pyridine and **pyrimidine** compounds:



Classifications:

(I)

(II)

(III)

Publication number	Publication date	Application number	Application date
AR074775 AA	20110209	AR2009P104944	20091217
AU2009333214 AA	20100708	AU2009333214	20091216
AU2009333214 BB	20130926	AU2009333214	20091216
CA2746307 AA	20100708	CA20092746307	20091216
CA2746307 C	20131119	CA20092746307	20091216

EP2376455 A1	20111019	EP20090793422	20091216
EP2376455 B1	20121114	EP20090793422	20091216
ES2397934 T3	20130312	ES20090793422T	20091216
JP2012512255 T2	20120531	JP20110542411T	20091216
MX2011006575 A1	20111006	MX20110006575	20110617
TW201035051 A	20101001	TW20090143428	20091217
US2010160280 AA	20100624	US20090639931	20091216
US8637500 BB	20140128	US20090639931	20091216
WO10077992 A1	20100708	WO2009US68330	20091216

Priority:

US20080138443P 20081217 US20080138434P 20081217 US20090639931 20091216
WO2009US68330 20091216

Probable Assignee: AMGEN INC

Assignee(s): (std): FROHN MICHAEL ; CHEN NING ; FALSEY JAMES R ; KALLER MATTHEW R ; HARRINGTON PAUL ; HU ESSA ; KUNZ ROXANNE ; HARRINGTON PAUL E ; FROHN MICHAEL J ; KUNZ ROXANNE K ; HARRINGTON ESSA HU ; RUMFELT SHANNON ; REICHELT ANDREAS ; NGUYEN THOMAS T ; PICKRELL ALEXANDER J ; SHAM KELVIN ; RZASA ROBERT M ; MERCEDE STEPHANIE J ; SIEGMUND AARON C ; YAO GUOMIN ; TEGLEY CHRISTOPHER M ; ALLEN JENNIFER R ; AMGEN INC

Assignee(s): AMGEN INC US

Inventor(s): (std): ALLEN JENNIFER R ; ANDREAS REICHELT ; CHEN NING ; ESSA HU ; FALSEY JAMES R ; FROHN MICHAEL ; FROHN MICHAEL J ; GUOMIN YAO ; HARRINGTON ESSA HU ; HARRINGTON PAUL ; HARRINGTON PAUL E ; HU ESSA ; KELVIN SHAM ; KUNZ ROXANNE ; KUNZ ROXANNE K ; KALLER MATTHEW R ; MERCEDE STEPHANIE J ; NING CHEN ; PAUL HARRINGTON ; PICKRELL ALEXANDER J ; MICHAEL FROHN ; NGUYEN THOMAS T ; REICHELT ANDREAS ; ROXANNE KUNZ ; RUMFELT SHANNON ; RZASA ROBERT M ; SHANNON RUMFELT ; SIEGMUND AARON C ; SHAM KELVIN ; TEGLEY CHRISTOPHER M ; YAO GUOMIN

Inventor(s): THOMAS T NGUYEN ; STEPHANIE J MERCEDE ; ROBERT M RZASA ; MATTHEW R KALLER ; JAMES R FALSEY ; JENNIFER R ALLEN ; CHRISTOPHER M TEGLEY ; AARON C SIEGMUND ; ALEXANDER J PICKRELL

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; AMGEN INC; ELSA D; LEMOINE ELSA D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ALKOXY TETRAHYDRO-PYRIDOPYRIMIDINE **PDE10 INHIBITORS**

Abstract: Source: US2012065211A The present invention is directed to alkoxy tetrahydro-pyridopyrimidine compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A01N43/00 A61K31/519 A61K31/55 A61P25/00 A61P25/18 A61P25/22 C07D471/04 C07D519/00 (Advanced/Invention)
CPC: C07D471/04 C07D519/00

European: C07D471/04 C07D519/00

US: 514/249 514/264.1 514/264.100S 544/279 544/279S 544/353 546/113 546/118 546/119 546/268.1 548/335.1 548/373.1

Family:

Publication number	Publication date	Application number	Application date
EP2434885 A1	20120404	EP20100781051	20100524
EP2434885 A4	20121107	EP20100781051	20100524
EP2434885 B1	20140326	EP20100781051	20100524
US2012065211 AA	20120315	US20100320038	20100524
US8492392 BB	20130723	US20100320038	20100524
WO10138430 A1	20101202	WO2010US35894	20100524

Priority:

US20090181506P 20090527 WO2010US35894 20100524 US20100320038 20100524

Probable Assignee: MERCK SHARP AND DOHME CORP

Assignee(s): (std): BRESLIN MICHAEL J ; COLEMAN PAUL J ; COX CHRISTOPHER D ; MERCK SHARP AND DOHME ; SCHREIER JOHN D ; RAHEEM IZZAT T

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): BRESLIN MICHAEL J ; COLEMAN PAUL J ; COX CHRISTOPHER D ; RAHEEM IZZAT T ; SCHREIER JOHN D

Agent(s): BUCHAN GAVIN MACNICOL; SYLVIA A; GERARD M; MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: AMINO TETRAHYDRO-PYRIDOPYRIMIDINE **PDE10 INHIBITORS**

Abstract: Source: US2012136012A The present invention is directed to amino tetrahydro-pyridopyrimidine compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A01N43/90 A61K31/519 A61P25/00 A61P25/14 A61P25/18 A61P25/22 A61P25/28 C07D471/00 C07D471/04 C07D487/00 C07D519/00 (Advanced/Invention)

CPC: C07D471/04 C07D519/00

European: C07D471/04 C07D519/00

US: 514/259.31 514/264.11 514/264.110P 544/263 544/279 544/279S

Family:

Publication number	Publication date	Application number	Application date
EP2467382 A1	20120627	EP20100810373	20100805
EP2467382 A4	20130102	EP20100810373	20100805
EP2467382 B1	20140625	EP20100810373	20100805
US2012136012 AA	20120531	US20100389270	20100805
US8691827 BB	20140408	US20100389270	20100805
WO11022213 A1	20110224	WO2010US44482	20100805

Priority:

US20090234427P 20090817 WO2010US44482 20100805 US20100389270 20100805

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): BRESLIN MICHAEL J ; COLEMAN PAUL J ; COX CHRISTOPHER D ; MERCK SHARP AND DOHME ; SCHREIER JOHN D ; RAHEEM IZZAT T

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): BRESLIN MICHAEL J ; COLEMAN PAUL J ; COX CHRISTOPHER D ; RAHEEM IZZAT T ; SCHREIER JOHN D

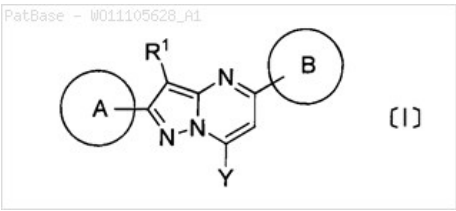
Agent(s): BUCHAN GAVIN MACNICOL; SYLVIA A; JOHN C; MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PYRAZOLOPYRIMIDINE COMPOUNDS AND THEIR USE AS **PDE10 INHIBITORS**

Abstract: Source: US2012309754A The present invention relates to a compound represented by formula [I]: wherein: R1 is hydrogen, halogen, lower alkyl or cyano; Ring A is an optionally substituted heterocyclic group; Ring B is an optionally substituted 3 to 6-membered monocyclic group; and Y is optionally substituted amino, optionally substituted cyclic amino, optionally substituted aliphatic 3 to 6-membered monocycloxy, optionally substituted lower alkyl or optionally substituted lower alkyl-O-, or a pharmaceutically acceptable salt thereof, and to their use as **PDE10** inhibitor.

Classifications:
International (IPC 8-9): A61K31/415 A61K31/519 A61K31/5377 A61P25/00 A61P25/18 A61P25/22 A61P25/28 A61P25/30 A61P43/00 C07D293/00 C07D487/00 C07D487/04 C07D519/00 (Advanced/Invention); A61K31/519 A61K31/5377 A61P25/00 A61P25/18 A61P25/22 A61P25/28 A61P25/30 A61P43/00 (Advanced/Non-invention); A61K31/519 A61P25/00 A61P25/18 A61P25/22 C07D487/04 (Core/Non-invention)
CPC: C07D487/04
European: C07D487/04
US: 514/233.2 514/249 514/250 514/255.05 514/259.3 514/303 514/403 544/117 544/281 548/121 548/360.1



Family:

Publication number	Publication date	Application number	Application date
AU2011221075 AA	20110901	AU20110221075	20110225
AU2011221075 BB	20131219	AU20110221075	20110225
CA2791166 AA	20110901	CA20112791166	20110225
CA2791166 C	20141230	CA20112791166	20110225
CN102770435 A	20121107	CN201180011300	20110225
EP2539342 A1	20130102	EP20110747579	20110225
EP2539342 A4	20130814	EP20110747579	20110225
EP2539342 B1	20150415	EP20110747579	20110225
IN08161CN2012 A	20140207	IN2012CN08161	20120921
JP2013520399 T2	20130606	JP20120539107T	20110225
JP5538555 B2	20140702	JP20120539107T	20110225
KR101478889 B1	20150102	KR20127025194	20110225
KR20120137383 A	20121220	KR20127025194	20110225
MX2012009866 A1	20120912	MX20120009866	20120824
RU2012141054 A	20140410	RU20120141054	20110225
RU2543386 C2	20150227	RU20120141054	20110225
TW201141869 A	20111201	TW20110106420	20110225
TWI476200 B	20150311	TW20110106420	20110225
US2012309754 AA	20121206	US20110579095	20110225
US8969376 BB	20150303	US20110579095	20110225
WO11105628 A1	20110901	WO2011JP54997	20110225

Priority:
US20100308706P 20100226 WO2011JP54997 20110225 US20110579095 20110225

Probable Assignee: MITSUBISHI TANABE PHARMA CORP

Assignee(s): (std): HONGU MITSUYA ; KAWANISHI EIJI ; MITSUBISHI TANABE PHARMA CORP ; MITSUBISI TANABE FARMA KOROPOREJSHN ; TANAKA YOSHIHITO

Assignee(s): MITSUBISHI TANABE PHARMA CORP2-6-18, KITAHAMACHUO-KUOSAKA-SHI541-8505OSAKAJP

Inventor(s): (std): EIJI KAWANISHI ; HONGU MITSUYA ; KAWANISHI EIJI ; MITSUYA HONGU ; TANAKA YOSHIHITO ; YOSHIHITO TANAKA ; TANAKA JOSIKHITO ; KHONGU MITSUJA ; KAVANISI EIDZI

Inventor(s): HONGU MITSUYAJP ; KAWANISHI EIJIJP ; TANAKA YOSHIHITOJP

Agent(s): HOFFMANN EITL; BIRCH STEWART KOLASCH AND BIRCH LLP; TSUKUNI HAJIME

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HETEROARYLOXYHETEROCYCLYL COMPOUNDS AS **PDE10 INHIBITORS**

Abstract: Source: US2011306588A Heteroaryloxyheterocyclyl compounds, and compositions containing them, and processes for preparing such compounds. Provided herein also are methods of treating disorders or diseases treatable by inhibition of **PDE10**, such as obesity, non-insulin dependent diabetes, schizophrenia, Huntington's Disease, bipolar disorder, obsessive-compulsive disorder, and the like.

Classifications:

International (IPC 8-9): A61K31/444 A61K31/4535 A61K31/454 A61K31/4709 A61K31/4725 A61K31/496 A61K31/497 A61K31/498 A61K31/4985 A61K31/501 A61K31/506 A61K31/517 A61K31/5355 A61K31/5377 A61K31/55 A61K31/551 A61K31/553 A61P25/00 A61P25/14 A61P25/16 A61P25/18 A61P25/24 A61P25/28 A61P25/30 A61P25/36 C07D241/18 C07D401/04 C07D401/06 C07D401/14 C07D403/04 C07D403/14 C07D405/04 C07D405/14 C07D409/14 C07D413/14 C07D417/14 C07D471/04 C07D471/08 C07D487/04 C07D487/10 C07D491/107 C07D519/00 (Advanced/Invention); A61P25/18 A61P3/04 A61P3/10 (Advanced/Non-invention)

CPC: C07D491/107 C07D413/14 C07D403/04 C07D487/04 C07D401/04 C07D405/04 C07D401/06 C07D409/14 C07D401/14 C07D403/14 C07D405/14 C07D417/14 C07D471/04 C07D471/08 C07D487/10

European: C07D401/14 C07D403/14 C07D405/14 C07D417/14 C07D471/04 C07D471/08 C07D487/10

US: 514/210.16 514/210.160P 514/210.21 514/210.210S 514/211.15 514/211.150S 514/217.05 514/217.050S 514/218 514/218S 514/235.2 514/235.8 514/235.800S 514/249 514/249S 514/252.11 514/255.05 514/255.050S 540/544 540/544S 540/575 540/575S 540/598 540/598S 544/120 544/120S 544/230 544/230S 544/238 544/292 544/295 544/320 544/350 544/354 544/356S 544/357 544/405 544/405S 546/113 546/118 546/122 546/159 546/162 546/193 546/282.1 548/306.1 548/468 548/524

Family:

Publication number	Publication date	Application number	Application date
AU2011253003 AA	20111117	AU20110253003	20110512
AU2011253003 BB	20140501	AU20110253003	20110512
CA2798325 AA	20111117	CA20112798325	20110512
EP2569302 A1	20130320	EP20110724480	20110512
JP2013526546 T2	20130624	JP20130510318T	20110512
MX2012013127 A1	20121130	MX20120013127	20121112
US2011306588 AA	20111215	US20110106718	20110512
US2013253186 AA	20130926	US20130892196	20130510
US8497265 BB	20130730	US20110106718	20110512
WO11143495 A1	20111117	WO2011US36342	20110512

Priority:
US20100334520P 20100513 US20110106718 20110512 WO2011US36342 20110512
US20130892196 20130510

Probable Assignee: AMGEN INC

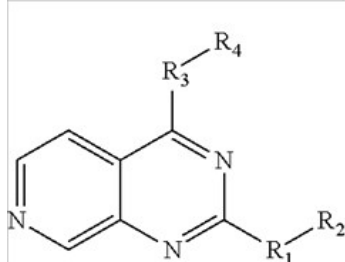
Assignee(s): (std): HARRINGTON ESSA HU ; HU ESSA ; MONENSCH EIN HOLGER ; RZASA ROBERT M ; KALLER MATTHEW R ; HORNE DANIEL B ; NGUYEN THOMAS T ; REICHELT ANDREAS ; ALLEN JENNIFER ; ALLEN JENNIFER R ; AMGEN INC

Inventor(s): (std): RZASA ROBERT M ; REICHELT ANDREAS ; NGUYEN THOMAS T ; MONENSCH EIN HOLGER ; KALLER MATTHEW R ; HU ESSA ; HORNE DANIEL B ; ALLEN JENNIFER R ; ALLEN JENNIFER ; HARRINGTON ESSA HU

Inventor(s): HOLGER MONENSCH EIN ; JENNIFER ALLEN ; MATTHEW R KALLER ; ROBERT M RZASA ; THOMAS T NGUYEN ; ANDREAS REICHELT ; DANIEL B HORNE ; ESSA HU HARRINGTON

Agent(s): SEXTON JANE HELEN; ELSA D; LEMOINE ELSA D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: 7-AZA-QUINAZOLINE **PDE10 INHIBITORS****Abstract:** Source: US2011319409A The present invention is directed to 7-aza-quinazoline compounds of general structural formula I

which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**).

Classifications:**International (IPC 8-9):** A61K31/519 A61K31/5377 A61P25/00 A61P25/18 A61P25/28 C07D471/04 (Advanced/Invention)**CPC:** C07D471/04**European:** C07D471/04**US:** 514/234.2 514/234.200P 514/264.11 514/264.110S 544/117 544/117S 544/279 544/279S**Family:**

Publication number	Publication date	Application number	Application date
US2011319409 AA	20111229	US20100821311	20100623

Priority:

US20100821311 20100623

Probable Assignee: COX CHRISTOPHER D**Assignee(s):** (std): COX CHRISTOPHER D ; FLORES BROCA ; RAHEEM IZZAT T ; WHITMAN DAVID B**Inventor(s):** (std): COX CHRISTOPHER D ; FLORES BROCA ; RAHEEM IZZAT T ; WHITMAN DAVID B

Title: PYRAZOLOPYRIMIDINE PDE 10 **INHIBITORS**

Abstract: Source: US2013137707A The present invention is directed to pyrazolopyrimidine compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A61K31/44 A61K31/519 A61P25/00 A61P25/16 A61P25/18 A61P25/28 C07D487/00 C07D487/04 C07D519/00 (Advanced/Invention)

CPC: C07D487/04 A61K31/519 C07D519/00

European: A61K31/519 C07D487/04 C07D519/00

US: 514/259.3 544/281

Family:

Publication number	Publication date	Application number	Application date
EP2621926 A2	20130807	EP20110829779	20110926
EP2621926 A4	20140910	EP20110829779	20110926
US2013137707 AA	20130530	US20110816568	20110926
US8957077 BB	20150217	US20110816568	20110926
WO12044562 A2	20120405	WO2011US53195	20110926
WO12044562 A3	20120628	WO2011US53195	20110926

Priority:

US20100388298P 20100930 US20110497999P 20110617 WO2011US53195 20110926
US20110816568 20110926

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): COX CHRISTOPHER D ; MERCK SHARP AND DOHME ; RAHEEM IZZAT T ; SCHREIER JOHN D

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): COX CHRISTOPHER D ; RAHEEM IZZAT T ; SCHREIER JOHN D

Agent(s): BUCHAN GAVIN MACNICOL; SYLVIA A; JOHN C; MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ALKOXY **PYRIMIDINE PDE10 INHIBITORS**

Abstract: Source: US2013158056A The present invention is directed to 2-alkoxy **pyrimidine** compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A01N43/54 A61K31/505 A61K31/513 C07D401/14 C07D417/14 C07D471/04 C07D495/04 C07D513/04 (Advanced/Invention); A61K31/506 C07D239/30 C07D239/48 C07D239/52 C07D239/56 (Advanced/Non-invention)

CPC: A61K31/513 C07D401/14 C07D403/12 C07D403/14 C07D413/14 C07D417/12 C07D417/14 C07D471/04 C07D495/04 A61K31/505 A61K31/506 C07D239/30 C07D239/48 C07D239/52 C07D239/56 C07D513/04

European: A61K31/513 C07D401/14 C07D403/12 C07D403/14 C07D413/14 C07D417/12 C07D417/14 C07D471/04 C07D495/04 C07D513/04
US: 514/274 544/295 544/296 544/310 544/317

Family:

Publication number	Publication date	Application number	Application date
EP2621276 A2	20130807	EP20110829778	20110926
US2013158056 AA	20130620	US20110820648	20110926
US8785467 BB	20140722	US20110820648	20110926
WO12044561 A2	20120405	WO2011US53194	20110926
WO12044561 A3	20120531	WO2011US53194	20110926

Priority:

US20100388280P 20100930 WO2011US53194 20110926 US20110820648 20110926

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): COX CHRISTOPHER D ; MERCK SHARP AND DOHME ; RAHEEM IZZAT T ; SHIPE WILLIAM D ; THEBERGE CORY R

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): COX CHRISTOPHER ; COX CHRISTOPHER D ; RAHEEM IZZAT T ; SHIPE WILLIAM D ; THEBERGE CORY R

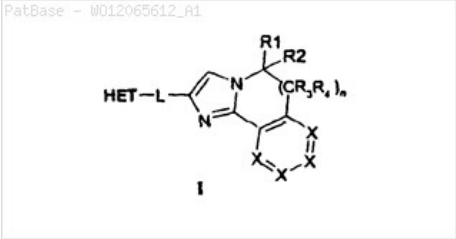
Agent(s): BUCHAN GAVIN MACNICOL; SYLVIA A; JOHN C; AYLER SYLVIA A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: IMIDAZOLE DERIVATIVES AS PDE10A ENZYME **INHIBITORS**

Abstract: Source: US2012129836A This invention is directed to compounds, which are PDE10A enzyme **inhibitors**. The invention provides a pharmaceutical composition comprising a therapeutically effective amount of a compound of the invention and a pharmaceutically acceptable carrier. The present invention also provides processes for the preparation of the compounds of formula I. The present invention further provides a method of treating a subject suffering from a neurodegenerative disorder comprising administering to the subject a therapeutically effective amount of a compound of formula I. The present invention also provides a method of treating a subject suffering from a drug addiction comprising administering to the subject a therapeutically effective amount of a compound of formula I. The present invention further provides a method of treating a subject suffering from a psychiatric disorder comprising administering to the subject a therapeutically effective amount of a compound of formula I.

Classifications:
International (IPC 8-9): A61K31/415 A61K31/4188 A61K31/4196 A61K31/437 A61K31/4515 A61K31/454 A61K31/4545 A61K31/495 A61K31/496 A61K31/4985 A61K31/519 A61K31/53 A61K31/551 A61K31/5513 A61K31/554 A61K45/06 A61P25/00 A61P25/14 A61P25/18 A61P25/24 A61P25/28 A61P3/00 A61P43/00 C07D C07D403/14 C07D471/04 C07D471/06 C07D487/04 C07D487/06 C07D519/00 (Advanced/Invention); A61P25/14 A61P25/18 (Advanced/Non-invention); A61K31/519 A61P25/00 C07D519/00 (Core/Invention); C07D (Subclass/Invention)
CPC: A61K45/06 A61K31/4985 A61K31/437 C07D487/04 C07D471/04 C07D519/00
European: C07D519/00
US: 514/211.13 514/211.130P 514/220 514/220S 514/249 514/249S 514/259.41 514/259.410S 514/294 514/303 514/303S 514/393 544/350 544/350S 546/119 546/119S 546/84 548/302.1



Family:

Publication number	Publication date	Application number	Application date
AP201306928 A0	20130630	AP20130006928	20111118
AR083926 AA	20130410	AR2011P104313	20111118
AU2011331607 AA	20120524	AU20110331607	20111118
CA2817663 AA	20130510	CA20112817663	20111118
CL2013001397 A1	20130830	CL20130001397	20130516
CN103328487 A	20130925	CN201180065325	20111118
CO6700886 A2	20130628	CO20130129441	20130527
CR20130226 A	20130903	CR20130000226	20130516
DOP20130108 A	20130930	DO20130000108	20130516
EA201390741 A1	20131129	EA20130090741	20111118
ECSP13012698 A	20130830	EC2013SP12698	20130618
EP2640731 A1	20130925	EP20110793325	20111118
IL226344 A0	20130731	IL20130226344	20130513
IN01512KN2013 A	20140328	IN2013KN01512	20130515
JP2013542963 T2	20131128	JP20130539140T	20111118
KR20140009192 A	20140122	KR20137012797	20111118
MA34736 B1	20131203	MA20130036011	20130614
MX2013005592 A1	20130612	MX20130005592	20130517
NZ610353 A	20150130	NZ20110610353	20111118
PE15342014 A1	20141116	PE20130001212	20111118
SG190282 A1	20130628	SG20130003716	20111118
TH132263 A	20140401	TH20131002528	20111118
TW201300391 A	20130101	TW20110141570	20111115
US2012129836 AA	20120524	US20110299368	20111118
US2014005201 AA	20140102	US20130016685	20130903
US2014357639 AA	20141204	US20140309423	20140619
US8552045 BB	20131008	US20110299368	20111118
US8796304 BB	20140805	US20130016685	20130903
US9062060 BB	20150623	US20140309423	20140619
WO12065612 A1	20120524	WO2011DK00136	20111118

Priority:
US20100415356P 20101119 DK20100001045 20101119 US20110299368 20111118
WO2011DK00136 20111118 US20130016685 20130903 US20140309423 20140619

Probable Assignee: LUNDBECK AND CO H AS
Assignee(s): (std): LUNDBECK AND CO AS H ; KILBURN JOHN PAUL ; LANGGAARD MORTEN ; KEHLER JAN ; MARIGO MAURO ; LUNDBECK AND CO H AS ; LUNDBECK AND AMP ; H LUNDBECK AND CO AS ; LUNDBECK A H ; NIELSEN JACOB
Assignee(s): H LUNDBECK AS ; LANGGARD MORTEN ; H ; H LUNDBECK A ; H LUNDBECK A S ; LUNDBECK AND
Inventor(s): (std): KEHLER JAN ; KILBURN JOHN PAUL ; LANGG RD MORTEN ; LANGGAARD MORTEN ; LANGGARD MORTEN ; MARIGO MAURO ; NIELSEN JACOB
Inventor(s): JACOB NIELSEN ; JAN KEHLER ; JOHN PAUL KILBURN ; MAURO MARIGO ; MORTEN LANGGAARD ; MORTEN LANGGARD
Agent(s): KALUM BO; MARY CATHERINE; KITAE T; H LUNDBECK A S
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ARYLOXMETHYL CYCLOPROPANE DERIVATIVES AS **PDE10 INHIBITORS**

Abstract: Source: US2014336195A The present invention is directed to aryloxymethyl cyclopropane derivatives which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A61K31/444 C07D239/34 C07D401/12 C07D401/14 C07D403/14 C07D413/14 C07D417/14 C07D471/04 C07D487/04 (Advanced/Invention)

CPC: C07D487/04 C07D401/12 C07D401/14 C07D413/14 C07D417/14 C07D471/04 C07D403/14

US: 514/248 514/255.05 514/259.1 514/269 514/274 514/300 514/333 514/334 514/335 544/236 544/281 544/310 544/319 544/405 546/122 546/256 546/272.1 546/275.4

Family:

Publication number	Publication date	Application number	Application date
EP2714041 A1	20140409	EP20120789446	20120521
EP2714041 A4	20141217	EP20120789446	20120521
US2014336195 AA	20141113	US20120117313	20120521
US8975261 BB	20150310	US20120117313	20120521
WO12162213 A1	20121129	WO2012US38759	20120521

Priority:

US20110489457P 20110524 WO2012US38759 20120521 US20120117313 20120521

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): BRESLIN MICHAEL J ; COX CHRISTOPHER D ; HARTINGH TIMOTHY J ; MERCK SHARP AND DOHME ; VASSALLO LAURA ; RAHEEM IZZAT T ; PERO JOSEPH ; ROSSI MICHAEL

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): BRESLIN MICHAEL J ; COX CHRISTOPHER D ; HARTINGH TIMOTHY J ; PERO JOSEPH ; RAHEEM IZZAT T ; ROSSI MICHAEL ; VASSALLO LAURA

Agent(s): BUCHAN GAVIN MACNICOL; SYLVIA A; JOHN C; MERCK SHARP AND DOHME CORP

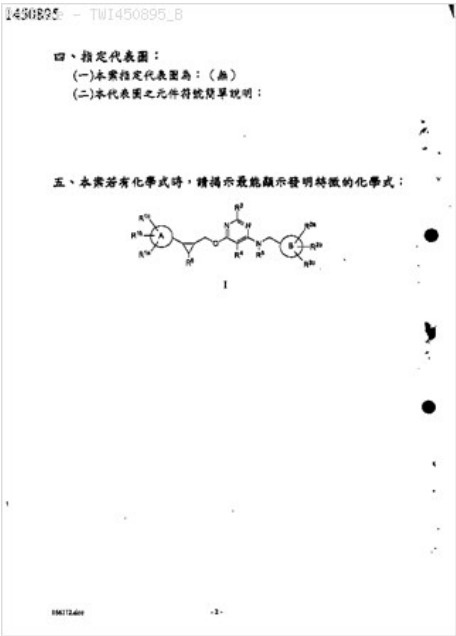
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PYRIMIDINE PDE10 INHIBITORS

Abstract: Source: US2014228368A The present invention is directed to pyrimidine compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (PDE10). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A61K31/505 A61K31/506 A61K31/519 A61P25/00 A61P25/14 A61P25/18 A61P25/22 A61P25/24 A61P25/28 A61P43/00 C07D C07D239/47 C07D401/12 C07D401/14 C07D403/12 C07D405/14 C07D413/14 C07D417/14 C07D471/04 C07D487/04 (Advanced/Invention); A61K31/506 A61P25/14 A61P25/18 A61P25/22 (Advanced/Non-invention); C07D (Subclass/Invention)
CPC: C07D487/04 C07D401/14 C07D417/14 A61K31/506 C07D239/47 C07D401/12 C07D413/14 C07D471/04
US: 514/248 514/252.02 514/259.3 514/269 514/272 514/274 544/236 544/238 544/281 544/310 544/319 544/320



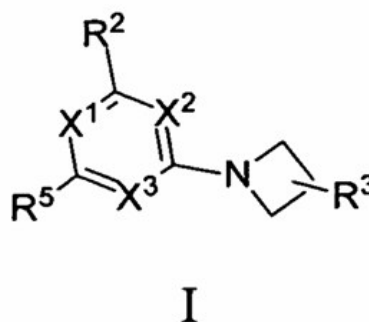
Title: 1,3 SUBSTITUTED AZETIDINE **PDE10 INHIBITORS**

Abstract: Source: US2014256708A The present invention is directed to substituted azetidines which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A61K31/397 A61K31/4427 A61K31/506 A61P25/00 A61P25/14 A61P25/18 A61P25/22 A61P25/24 A61P25/28 A61P25/30 A61P43/00 C07D401/14 C07D403/14 C07D405/14 C07D413/14 C07D417/14 (Advanced/Invention); A61P25/14 A61P25/18 A61P25/28 (Advanced/Non-invention)
CPC: C07D417/14 C07D401/14 C07D403/14 C07D405/14 C07D413/14
US: 514/210.2 514/210.21 544/238 544/295 544/317 544/327 544/328

PatBase - TW201321369_A



Family:

Publication number	Publication date	Application number	Application date
AR088258 AA	20140521	AR2012P103729	20121005
AU2012318874 AA	20130411	AU20120318874	20121001
CA2851082 AA	20140403	CA20122851082	20121001
EP2763672 A1	20140813	EP20120838133	20121001
EP2763672 A4	20150304	EP20120838133	20121001
JP2014528446 T2	20141027	JP20140534619T	20121001
TW201321369 A	20130601	TW20120137034	20121005
US2014256708 AA	20140911	US20120349041	20121001
WO13052395 A1	20130411	WO2012US58220	20121001

Priority:

US20110544065P 20111006 WO2012US58220 20121001 US20120349041 20121001

Probable Assignee: MERCK SHARP AND DOHME CORP

Assignee(s): (std): BESHORE DOUGLAS C ; COX CHRISTOPHER D ; KIM JUNE J ; KUDUK SCOTT D ; MCVEAN CAROL ; REGER THOMAS ; SHEEN JUSTIN ; MERCK SHARP AND DOHME

Assignee(s): SHEEN JUSTIN T ; MERCK SHARP AND DOHME CORP126 EAST LINCOLN AVENUE RAHWAY NJ 07065-0907US ; STEEN JUSTIN T ; MERCK SHARP AND DOHME CORP

Inventor(s): (std): STEEN JUSTIN T ; SHEEN JUSTIN ; REGER THOMAS ; MCVEAN CAROL ; KUDUK SCOTT D ; KIM JUNE J ; COX CHRISTOPHER D ; BESHORE DOUGLAS C ; SHEEN JUSTIN T ; MCVEAN CAROL A

Inventor(s): BESHORE DOUGLAS CUS ; COX CHRISTOPHER DUS ; KIM JUNE JUS ; KUDUK SCOTT DUS ; MCVEAN CAROLUS ; REGER THOMASUS ; STEEN JUSTIN TUS

Agent(s): BUCHAN GAVIN MACNICOL ; MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TRIAZOLYL **PDE10 INHIBITORS**

Abstract: Source: US2014249134A The present invention is directed to substituted triazolyl compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (**PDE10**). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): A01N43/38 A61K31/4439 A61K31/501 A61K31/506 A61P25/00 C07D401/14 C07D403/04 C07D403/14 C07D405/14 C07D413/14 C07D417/14 C07D471/04 C07D487/04 (Advanced/Invention)

CPC: C07D487/04 C07D403/04 C07D471/04 C07D413/14 C07D405/14 C07D401/14 C07D403/14 C07D417/14

US: 514/210.21 514/234.5 514/252.19 514/255.05 514/256 514/269 514/274 514/275 544/122 544/295 544/317 544/319 544/324 544/328

Family:

Publication number	Publication date	Application number	Application date
EP2763533 A1	20140813	EP20120838891	20121003
EP2763533 A4	20150513	EP20120838891	20121003
US2014249134 AA	20140904	US20120349030	20121003
WO13052526 A1	20130411	WO2012US58525	20121003

Priority:

US20110544055P 201111006 WO2012US58525 20121003 US20120349030 20121003

Probable Assignee: MERCK SHARP AND DOHME CORP

Assignee(s): (std): COX CHRISTOPHER D ; DUDKIN VADIM Y ; KIM JUNE J ; KUDUK SCOTT D ; MCVEAN CAROL ; STEEN JUSTIN ; STEELE THOMAS ; REGER THOMAS ; MERCK SHARP AND DOHME

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): MCVEAN CAROL A ; SHEEN JUSTIN T ; STEEN JUSTIN ; STEELE THOMAS ; REGER THOMAS ; MCVEAN CAROL ; KUDUK SCOTT D ; KIM JUNE J ; DUDKIN VADIM Y ; COX CHRISTOPHER D

Agent(s): BUCHAN GAVIN MACNICOL; MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TRIAZOLO COMPOUNDS AS **PDE10 INHIBITORS**

Abstract: Source: US2015148332A The present invention provides compounds of formula (Ia) and (Ib) wherein R1, R2, R3 and R4 are as defined in the description and in the claims, as well as physiologically acceptable salts thereof. These compounds inhibit PDE10A and can be used as medicaments.

Classifications:

International (IPC 8-9): A61K31/4192 A61K31/437 A61K31/4745 A61K31/498 A61K31/4985 A61K31/519 A61P25/00 C07D C07D403/06 C07D403/14 C07D471/04 C07D487/04 (Advanced/Invention); C07D (Subclass/Invention)

CPC: C07D487/04 C07D403/06 C07D471/04

US: 514/210.21 514/217.05 514/233.2 514/249 514/259.31 514/303 540/599 544/127 544/263 544/350 544/353 546/119



Family:

Publication number	Publication date	Application number	Application date
AR091185 AA	20150114	AR2013P101863	20130529
AU2013269800 AA	20131205	AU20130269800	20130527
CA2868240 AA	20140923	CA20132868240	20130527
CN104364249 A	20150218	CN201380027925	20130527
CO7091174 A2	20141021	CO20140213791	20140926
CR20140481 A	20141117	CR20140000481	20141016
EA201492069 A1	20150331	EA20140092069	20130527
EP2855455 A1	20150408	EP20130725360	20130527
IL235829 A0	20150201	IL20140235829	20141120
IL235829 A1	20150201	IL20140235829	20141120
KR20150027143 A	20150311	KR20147036637	20130527
MX2014014468 A1	20150212	MX20140014468	20141126
PE23662014 A1	20150110	PE20140001616	20130527
TW201402564 A	20140116	TW20130118823	20130528
US2015148332 AA	20150528	US20140552837	20141125
WO13178572 A1	20131205	WO2013EP60838	20130527

Priority:
EP20120169954 20120530 WO2013EP60838 20130527 EP20130725360 20130527

Probable Assignee: HOFFMANN LA ROCHE

Assignee(s): (std): BOSCH GMBH ROBERT ; HOFFMANN LA ROCHE

Assignee(s): RUDOLPH MARKUS ; GROEBKE ZBINDEN KATRIN ; KUHN BERND ; SCHAFFHAUSER HERVE ; FLOHR ALEXANDER ; LERNER CHRISTIAN ; F HOFFMANN LA ROCHE AG ; F HOFFMANN LA ROCHE AGGRENZACHERSTRASSE 124CH-4070BASELCH ; FHOFFMANN LA ROCHE AG ; HOFFMANN LA ROCHE INC

Inventor(s): (std): ALEXANDER FLOHR ; BERND KUHN ; CHRISTIAN LERNER ; FLOHR ALEXANDER ; HERVE SCHAFFHAUSER ; KATRIN GROEBKE ZBINDEN ; KUHN BERND ; GROEBKE ZBINDEN KATRIN ; LERNER CHRISTIAN ; MARKUS RUDOLPH ; RUDOLPH MARKUS ; SCHAFFHAUSER HERVE ; ZBINDEN KATRIN GROEBKE ; WINKLER THOMAS ; MARX KLAUS ; HOFFMANN ULLI ; DIEM CARSTEN ; BREITENBACH JAN

Inventor(s): SCHAFFHAUSER HERVEFR ; RUDOLPH MARKUSCH ; LERNER CHRISTIANCH ; GROEBKE ZBINDEN KATRINCH ; KUHN BERNDCH ; FLOHR ALEXANDERDE

Agent(s): KUENG PETER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INHIBIDORES DE PDE10 DE PIRIMIDINA Pyrimidine PDE10 INHIBITORS (Machine translation)

Abstract: Source: ECSP14013268A La presente invencion se refiere a compuestos de pirimidina que son utiles como agentes terapeuticos para el tratamiento de trastornos del sistema nervioso central asociados con la fosfodiesterasa 10 (PDE10). La presente invencion tambien se refiere al uso de dichos compuestos para tratar trastornos neurologicos y psiquiatricos, tales como la esquizofrenia, la psicosis o la enfermedad de Huntington, y aquellos asociados con la hipofuncion del cuerpo estriado o la disfuncion de los ganglios basales. The present invention relates to pyrimidine compounds that are useful as therapeutics for the treatment of central nervous system disorders associated with phosphodiesterase 10 (PDE10) agents. The present invention also relates to the use of such compounds to treat neurological and psychiatric, such as schizophrenia, psychosis or disorders Huntington's disease, and those associated with striatal hypofunction or dysfunction of the basal ganglia.

Classifications:
International (IPC 8-9): C07D239/47 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
ECSP14013268 A	20140430	EC2014SP13268	20140325

Priority:
US20110615273 20110825

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): MERCK SHARP AND DOHME

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): COX CHRISTOPHER D ; DUDKIN VADIM ; LAYTON MARK E ; KERN JEFFREY CURTIS ; RAHEEM IZZAT T

Title: PYRIMIDINE PDE10 INHIBITORS

Abstract: The present invention is directed to pyrimidine compounds which are useful as therapeutic agents for the treatment of central nervous system disorders associated with phosphodiesterase 10 (PDE10). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

Classifications:

International (IPC 8-9): C07D239/34 (Advanced/Invention)
CPC: C07D239/34

Family:

Publication number	Publication date	Application number	Application date
WO14081619 A1	20140530	WO2013US70214	20131115

Priority:

US20120728464P 20121120

Probable Assignee: MERCK SHARP AND DOHME

Assignee(s): (std): KUDUK SCOTT D ; MCCOMAS CASEY C ; REGER THOMAS S ; MERCK SHARP AND DOHME

Assignee(s): MERCK SHARP AND DOHME CORP

Inventor(s): (std): KUDUK SCOTT D ; MCCOMAS CASEY C ; REGER THOMAS S

Agent(s): MERCK SHARP AND DOHME CORP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: NEW **PYRIMIDINE** DERIVATIVES AS PHOSPHODIESTERASE 10 **INHIBITORS** (PDE-10)

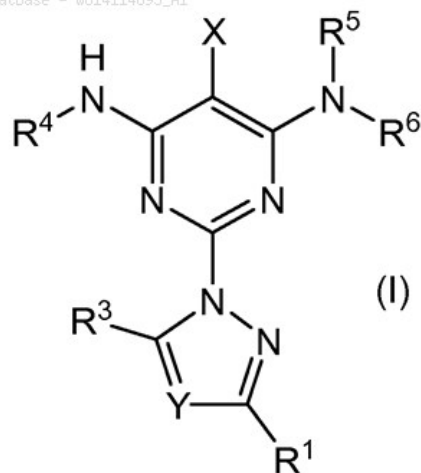
Abstract: The present invention relates to novel **pyrimidine** derivatives of formula (I) [Formula should be entered here] as **inhibitors** of the enzyme phosphodiesterase 10 (PDE-10), pharmaceutical compositions comprising an effective amount of these compounds and the use of the compounds for manufacturing a medicament for the treatment of pathological conditions or diseases that can improve by inhibition of the enzyme Phosphodiesterase such as neurological, psychiatric, respiratory or metabolic diseases.

Classifications:

International (IPC 8-9): A61K31/506 A61P25/28 C07D401/14 C07D403/04 (Advanced/Invention)

CPC: C07D401/14 C07D403/04 A61K31/506

PatBase - WO14114695_A1



Family:

Publication number	Publication date	Application number	Application date
ES2480341 AA	20140725	ES20130030082	20130124
ES2480341 BA	20150122	ES20130030082	20130124
WO14114695 A1	20140731	WO2014EP51290	20140123

Priority:

ES20130030082 20130124

Probable Assignee: PALOBIOFARMA S L

Assignee(s): (std): PALOBIOFARMA S L

Assignee(s): PALOBIOFARMA SL

Inventor(s): (std): CAMACHO GOMEZ JUAN ; CASTRO PALOMINO LARIA JULIO

Inventor(s): JUAN CAMACHO GOMEZ ; JULIO CASTRO PALOMINO LARIA

Agent(s): CARBONELL VALLES ENRIC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TRIAZINE DERIVATIVES

Abstract: Source: US2014329820A The present invention is directed to a new class of triazine derivatives as described by formula I below in which A, X, R₁, R₂, R₃, and R₄ are as defined herein and to the use of the compounds as **PDE10 inhibitors**.

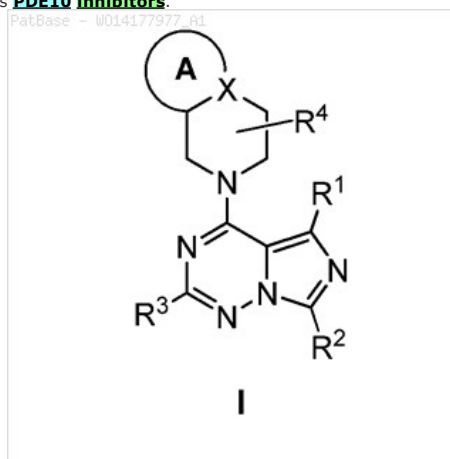
Classifications:

International (IPC 8-9): A61K31/429 A61K31/4353 A61K31/4725 A61K31/53 A61P17/06 A61P25/00 A61P25/16 A61P25/18 A61P25/24 A61P25/28 C07D417/04 C07D471/04 C07D487/04 C07D498/04 C07D513/04 C07D519/00 (Advanced/Invention); A61P25/00 A61P25/14 (Advanced/Non-invention)

CPC: C07D471/04 C07D498/04 C07D513/04 C07D519/00 C07D487/04 A61K31/4353

A61K31/53

US: 514/243 544/184



Family:

Publication number	Publication date	Application number	Application date
TW201506027 A	20150216	TW20140115365	20140429
US2014329820 AA	20141106	US20140265458	20140430
US2015080401 AA	20150319	US20140549871	20141121
US8933224 BB	20150113	US20140265458	20140430
UY35547 A1	20141128	UY20140035547	20140430
WO14177977 A1	20141106	WO2014IB60945	20140423

Priority:

US20130818650P 20130502 US20140265458 20140430 US20140549871 20141121

Probable Assignee: PFIZER

Assignee(s): (std): PFIZER ; PFIZER LTD

Assignee(s): PFIZER INC

Inventor(s): (std): ALLEN CHAPPIE THOMAS ; BRYCE TUTTLE JAMISON ; CHAPPIE THOMAS ALLEN ; HELAL CHRISTOPHER JOHN ; JOHN HELAL CHRISTOPHER ; KORMOS BETHANY LYN ; LYN KORMOS BETHANY ; ROBERT VERHOEST PATRICK ; TUTTLE JAMISON BRYCE ; VERHOEST PATRICK ROBERT

Agent(s): J MICHAEL ; OLSON A DEAN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW