

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: NC2017/0003960				
CRITERIOS PARA LA BÚSQUEDA				
PALABRAS CLAVE UTILIZADAS		4-aza-7,9-dideazaadenosine C-nucleoside Tubercidin C-nucleoside analogs		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP A61K 31/00, A61K 31/53, A61K 31/675, A61K 31/685, C07H 1/00, C07H 11/00, C07H 15/18, C07D 487/04, C07D 519/00, C07H 1/02, A61P 31/14. CPC:		
DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)				
Informes/Base de datos	N° de solicitud/ Autor**	Fecha de Publicación/Presentación (DD/MM/AAAA)	Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias)	Categorías especiales de los documentos citados***
SIPI	-	-	-	-
USPTO	WO2009132135	29/10/2009	-	A
	WO2009041447	2/04/2009	-	A
EPO	WO2012012776	26/01/2012	-	A
	US2010015094	21/01/2010	-	A
	WO2012012465	26/01/2012	-	A
	US2013143835	6/06/2013	-	A
	WO2011035250	24/03/2011		A
	Art. 1*	2012		A
	Art. 2**	2012		A
	Patbase	-	-	-
*** Categorías especiales de documentos citados:				
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Literatura no patente	*Art 1. Metobo, Sammy E., et al. "Practical synthesis of 1'-substituted Tubercidin C-nucleoside analogs." <i>Tetrahedron letters</i> 53.5 (2012): 484-486. **Art. 2. Cho, Aesop, et al. "Synthesis and antiviral activity of a series of 1'-substituted 4-aza-7, 9-dideazaadenosine C-nucleosides." <i>Bioorganic & medicinal chemistry letters</i> 22.8 (2012): 2705-2707.			
Fecha del reporte de búsqueda:		30/05/2018		

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Structure

Details

1)

(S)-2-ethylbutyl 2-(((R)-((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)amino)propanoate
IUPAC Name: 2-ethylbutyl (2S)-2-((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxyoxolan-2-yl)methoxy-phenoxyphosphoryl)amino)propanoate
Molecular Weight: 602.576 g/mol
InChIKey: RWWYLEGVBNNMLJ-QUGBOHLSA-N
SMILES: NC1=NC=NNC21=CC=C2[C@2]([C@@H]([C@@H]([C@H](O)OC2=CC=CC=C2)[N(C)[C@H](C(=O)OCC(C)(CC)C)O)O)C#N
Formula: C₂₇H₃₅N₈O₉P

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2)

(S)-2-ethylbutyl 2-(((S)-((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)amino)propanoate
IUPAC Name: 2-ethylbutyl (2S)-2-((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxyoxolan-2-yl)methoxy-phenoxyphosphoryl)amino)propanoate
Molecular Weight: 602.576 g/mol
InChIKey: RWWYLEGVBNNMLJ-YSOARWBDSA-N
SMILES: NC1=NC=NNC21=CC=C2[C@2]([C@@H]([C@@H]([C@H](O)OC2=CC=CC=C2)[N(C)[C@H](C(=O)OCC(C)(CC)C)O)O)C#N
Formula: C₂₇H₃₅N₈O₉P

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3)

(2S)-2-ethylbutyl 2-((((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)amino)propanoate
IUPAC Name: 2-ethylbutyl (2S)-2-((((((2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxyoxolan-2-yl)methoxy-phenoxyphosphoryl)amino)propanoate
Molecular Weight: 602.576 g/mol
InChIKey: RWWYLEGVBNNMLJ-MUEYHYLSA-N
SMILES: C1[C@]C(COC1[C@H]([C]NP(=O)(OC1=CC=CC=C1)OC[C@H]1O[C@@]([C@@H]([C@@H]([C@H]1O)O)(CN)C1=CC=C(NC=NN21=N)O)C
Formula: C₂₇H₃₅N₈O₉P

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4)

Found in image: US20160122366A1-20160505-C00202.CDX
IUPAC Name:
Molecular Weight: 602.576 g/mol
InChIKey: RWWYLEGVBNNMLJ-QFDSUUFESA-N
SMILES: N1C[C@H](C(OCC(C)(CC)=O)C)P(=O)(C)[C@H]1O[C@@]([C@@H]([C@@H]([C@H]1O)O)(C=2N3C=CC2C1=NC=N3)[N(C)N])O)OC4=CC=CC=C4
Formula: C₂₇H₃₅N₈O₉P

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#	CC	Cat.	Citation details
36	US		Application N° US201514926063 (US14926063) - 29 October 2015 National Search Report US8980865 B2 (ALIOS BIOPHARMA INC [US]) - 17 March 2015 US9243022 B2 (ALIOS BIOPHARMA INC [US]) - 26 January 2016 US9249174 B2 (ALIOS BIOPHARMA INC [US]) - 2 February 2016 US9605018 B2 (ALIOS BIOPHARMA INC [US]) - 28 March 2017 US9724360 B2 (GILEAD SCIENCES INC [US]) - 8 August 2017 US9388208 B2 (GILEAD SCIENCES INC [US]) - 12 July 2016 US9481703 B2 (MEDIVIR AB [SE]) - 1 November 2016 US9487544 B2 (GILEAD SCIENCES INC [US]) - 8 November 2016 US9540411 B2 (MEDIVIR AB [SE]) - 10 January 2017 US9701682 B2 (GILEAD SCIENCES INC [US]) - 11 July 2017 US2015133395 A1 (GILEAD SCIENCES INC [US]) - 14 May 2015
37	EP		Application N° EP20150801008 (EP15801008.2) - 29 October 2015
38	EP		Application N° EP20150797205 (EP15797205.0) - 29 October 2015
39	WO		Application N° WO2015US57934 (WOUS2015/057934) - 29 October 2015 International Search Report WO2012012776 A1 (GILEAD SCIENCES INC [US], et al) - 26 January 2012 * compounds of claim 13, in particular penultimate compound of page 152; page 128, compound 9; first compound of page 153 * US2010015094 A1 (BABU YARLAGADDA S, , et al) - 21 January 2010 * claims 1 - 7, 25 24; §0011; §0178 * WO2012012465 A1 (CHO AESOP [US], et al) - 26 January 2012 * page 111, first column, penultimate compound; page 84, compound 13 * US2013143835 A1 (MEDIVIR AB [SE], et al) - 6 June 2013 * page 14, §0169, compound I - 14; §0172 - §0173; * WO2011035250 A1 (GILEAD SCIENCES INC [US], et al) - 24 March 2011 * claim 9; page 105/106, claim 12, page 34; page 26 * Practical synthesis of 1-substituted Tubercidin C-nucleoside analogs Authors: Sammy E Metobo, Jie Xu, Oliver L Saunders, Thomas Butler, Evangelos Aktoudianakis, Aesop Cho, Choung U Kim Publication data: Tetrahedron Letters, 20111111 ELSEVIER, AMSTERDAM, NL Source info: Vol: 53, Nr: 5, Page(s): 484 - 486 * scheme 2, compound 5; page 485, § bridging column 1/2 * Synthesis and antiviral activity of a series of 1'-substituted 4-aza-7,9-dideazaadenosine C-nucleosides Authors: Aesop Cho, Oliver L Saunders, Thomas Butler, Lijun Zhang, Jie Xu, Jennifer E Vela, Joy Y Feng, Adrian S Ray, Choung U Kim Publication data: Bioorganic & Medicinal Chemistry Letters, 20120401 Pergamon, AMSTERDAM, NL Source info: Vol: 22, Nr: 8, Page(s): 2705 - 2707 * abstract; scheme 1, compound 6; table 1, compounds 8a - d and 9a - d *