

INFORME DE BÚSQUEDA DE PATENTES

N° de solicitud: NC20170004465

CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)

Palabras clave utilizadas

BACE1 and inhibitor

CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA

CIP: C07D 401/12, C07D 413/12, C07D 417/12, A61K 31/444, A61K 31/497, A61K 31/4439, A61K 31/506, A61P 25/28.

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	-	-	-	-
PatBase	-	-	-	-
EPO	WO2012168164	13/12/2012	-	-
	WO2011154431	15/12/2011	-	--
	Art. 1*	23/05/2013	-	-
	Art. 2**	01/05/2014	-	-

*** Categorías especiales de documentos citados:

"A" documento que define el estado general de la técnica no considerado como particularmente relevante. "E" solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. "P" documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.	"X" documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. "Y" documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.
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Literatura no patente

*[beta]-Secretase (BACE1) Inhibitors with High in Vivo Efficacy Suitable for Clinical Evaluation in Alzheimer's Disease Authors :Hans Hilpert, Wolfgang Guba, Thomas J Woltering, Wolfgang Wostl, Emmanuel Pinard, Harald Mauser, Alexander V Mayweg, Mark Rogers-Evans, Roland Humm, Daniela Krummenacher, Thorsten Muser, Christian Schnider, Helmut Jacobsen, Laurence Ozmen, Alessandra Bergadano, David W Banner, Remo Hochstrasser, Andreas Kuglstatler, Pascale David-Pierson, Holger Fischer, Alessandra Polara, Robert Narquizian Publication data: Journal of Medicinal Chemistry, 20130523 American Chemical Society Source info: Vol: 56, Nr: 10, Page(s): 3980 – 3995.

**The evolution of amidine-based brain penetrant BACE1 inhibitors Authors:Daniel Oehlrich, Hana Prokopcova, Harrie J M Gijzen Publication data:Bioorganic & Medicinal Chemistry Letters, 20140501 Pergamon, AMSTERDAM, NL Source info:Vol: 24, Nr: 9, Page(s): 2033 - 2045

Fecha del reporte de búsqueda:

21/06/2018

Title: 2-AMINO-3,5,5-TRIFLUORO-3,4,5,6-TETRAHYDROPYRIDINES AS BACE1 INHIBITORS FOR TREATMENT OF ALZHEIMER'S DISEASE

Abstract: The present invention is directed to novel inhibitors of the BACE1 enzyme. Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and uses of the compounds to treat disorders for which the reduction of A beta deposits is beneficial such as Alzheimer's disease.

Classifications:

International (IPC 8-9): [A61K31/435](#)

[A61K31/44](#) [A61K31/4418](#) [A61K31/443](#)

[A61K31/4439](#) [A61K31/444](#) [A61K31/497](#)

[A61K31/506](#) [A61P25/28](#) [C07D211/72](#)

[C07D227/10](#) [C07D401/12](#) [C07D405/12](#)

[C07D413/12](#) [C07D413/14](#)

[C07D417/12](#) (Advanced/Invention)

CPC: [C07D227/10](#) [C07D413/14](#) [C07D401/12](#)

[C07D211/72](#) [C07D413/12](#) [C07D417/12](#)

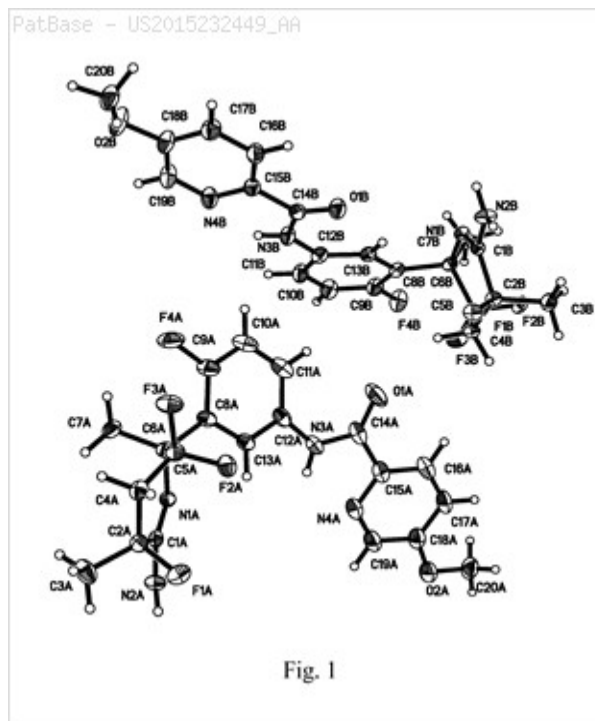
[A61K31/435](#) [A61K31/444](#) [C07D405/12](#)

US: [1/1](#) [514/255.05](#) [514/269](#) [514/332](#) [514/340](#)

[514/341](#) [514/342](#) [514/352](#) [544/298](#) [544/405](#)

[546/262](#) [546/269.7](#) [546/271.4](#) [546/275.4](#)

[546/311](#)



SG11201606812W A1	20160929	SG20161106812	20150217
TW201609700 A	20160316	TW20150105281	20150217
US2015232449 AA	20150820	US20150625658	20150219
US2017066741 AA	20170309	US20150119639	20150217
US9353084 BB	20160531	US20150625658	20150219
WO15124576 A1	20150827	WO2015EP53327	20150217

Priority:

DK20140000086 20140219 DK20140000349 20140701 WO2015EP53327 20150217

Probable Assignee: H LUNDBECK A S

Assignee(s): (std): H LUNDBECK A ; H LUNDBECK AS ; LUNDBECK AND CO H AS

Assignee(s): TAGMOSE LENA ; JUHL KARSTEN ; JENSEN THOMAS ; MARIGO MAURO ;
HLUNDBECK A S ; H LUNDBECK A S

Inventor(s): (std): JENSEN THOMAS ; JUHL KARSTEN ; KARSTEN JUHL ; LENA TAGMOSE ; MARIGO
MAURO ; MAURO MARIGO ; TAGMOSE LENA ; THOMAS JENSEN

Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; SARGENT AND KRAHN;
JOSE ANDRES RINCON USCATEGUI; H LUNDBECK A S; ADOLF MARTUA
PANGGABEAN MAROLITA SETIATI; OHMORI NORIO; KOBAYASHI HIROSHI;
AUERBACHSCHROT LLC; JEFFREY I; WILLIAM C

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
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GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM
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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: 2-AMINO-6-(DIFLUOROMETHYL)-5,5-DIFLUORO-6-PHENYL-3,4,5,6-TETRAHYDROPYRIDINES AS BACE1 INHIBITORS

Abstract: The present invention is directed to novel inhibitors of the BACE1 enzyme. Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and uses of the compounds to treat disorders for which the reduction of A beta deposits is beneficial such as Alzheimer's disease.

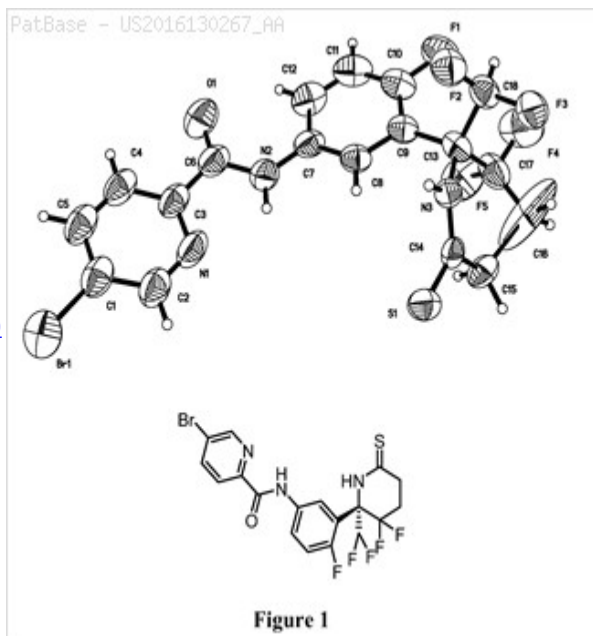
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[A61K31/4418](#) [A61K31/4439](#) [A61K31/444](#)
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[C07D417/12](#) (Advanced/Invention);
[C07D](#) (Subclass/Invention)

International (IPC 1-7): [A61K31/4439](#)
[A61K31/444](#) [A61K31/497](#) [A61K31/506](#)
[A61P25/28](#) [C07D401/12](#) [C07D413/12](#)
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CPC: [C07D401/12](#) [C07D413/12](#) [A61K31/4439](#)
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US: [1/1](#) [514/255.05](#) [514/269](#) [514/332](#) [514/340](#)
[514/342](#) [544/298](#) [544/405](#) [546/262](#) [546/269.7](#)
[546/271.4](#)



Family:

Publication number	Publication date	Application number	Application date
AR102599 AA	20170308	AR2015P103652	20151109
AU2015345258 AA	20160519	AU20150345258	20151109
BR112017009583 A2	20171226	BR20171109583	20151109
CA2965563 AA	20170424	CA20152965563	20151109
CL2017001112 A1	20171201	CL20170001112	20170504
CN107074836 A	20170818	CN201580060803	20151109
CO20170004465 A2	20170719	CO20170004465	20170503
CR20170186 A	20170727	CR20170000186	20151109
DOP2017000117 A	20170731	DO20170000117	20170509
EA201790818 A1	20170929	EA20170090818	20151109
EP3218365 A1	20170920	EP20150805109	20151109
ID201803128 A	20180329	ID2017AID02892	20151109
IL252089 A0	20170731	IL20150252089	20151109
IN201717013961 A	20170818	IN201717013961	20170419
JP2017533245 T2	20171109	JP20170525010T	20151109
KR20170081184 A	20170711	KR20177012442	20151109
MX2017006049 A1	20170619	MX20170006049	20151109
PE09462017 A1	20170713	PE20170000825	20151109
PH2017500841 A	20171030	PH20170500841	20170505
SG11201703547X A1	20170530	SG20171103547	20151109
SV2017005435 A	20170719	SV20170005435	20170509
TW201628616 A	20160816	TW20150136839	20151109
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US2017319564 AA	20171109	US20150524546	20151109
US9346797 BA	20160524	US20150933301	20151105
WO16075063 A1	20160519	WO2015EP76015	20151109

Priority:

DK20140000648 20141110 DK20150000447 20150807 WO2015EP76015 20151109

Probable Assignee: H LUNDBECK A S

Assignee(s): (std): H LUNDBECK A ; H LUNDBECK AS ; LUNDBECK AND CO H AS ; H LUNDBERCK AS

Assignee(s): TAGMOSE LENA ; JUHL KARSTEN ; MARIGO MAURO ; HLUNDBECK A S ; H LUNDBERCK A S ; H LUNDBECK A S

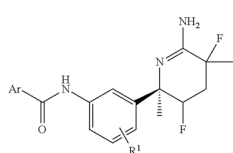
Inventor(s): (std): JUHL KARSTEN ; KARSTEN JUHL ; LENA TAGMOSE ; MARIGO MAURO ; MAURO MARIGO ; TAGMOSE LENA

Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; SARGENT AND KRAHN; JOSE ANDRES RINCON USCATEGUI; H LUNDBECK A S; ADOLF MARTUA PANGGABEAN; KOBAYASHI HIROSHI; OHMORI NORIO; AUERBACHSCHROT LLC; JEFFREY I; WILLIAM C

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 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 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: 2-AMINO-3,5-DIFLUORO-3,6-DIMETHYL-6-PHENYL-3,4,5,6-TETRAHYDROPYRIDINES AS BACE1 INHIBITORS FOR TREATING ALZHEIMER'S DISEASE

Abstract: The present invention is directed to compounds according to Formula (I) which compounds are inhibitors of the BACE1 enzyme. Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and uses of the compounds to treat disorders for which the reduction of A beta deposits is beneficial such as Alzheimer's



disease.

Classifications:

International (IPC 8-9): [A61K31/4418](#)

[A61K31/4439](#) [A61K31/444](#) [A61K31/497](#)

[A61P25/28](#) [A61P43/00](#) [C07B59/00](#) [C07D](#)

[C07D211/72](#) [C07D401/12](#) [C07D413/12](#)

[C07D417/12](#) (Advanced/Invention);

[C07D](#) (Subclass/Invention)

International (IPC 1-7): [A61K31/444](#)

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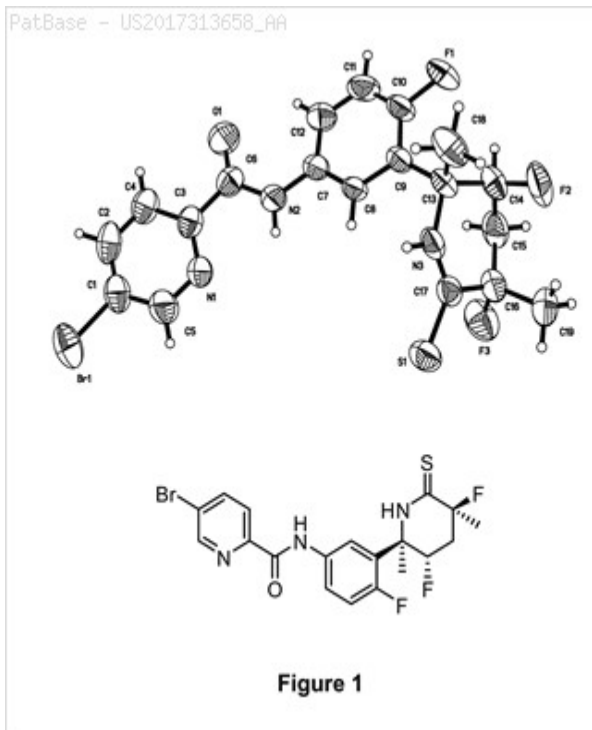


Figure 1

Family:

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IL252091 A0	20170731	IL20150252091	20151109
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JP2017533253 T2	20171109	JP20170525124T	20151109
KR20170082529 A	20170714	KR20177012461	20151109
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PE09472017 A1	20170713	PE20170000827	20151109
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SG11201703177W A1	20170530	SG20171103177	20151109
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US2017313658 AA	20171102	US20150524479	20151109
WO16075062 A1	20160519	WO2015EP76014	20151109

Priority:

DK20140000649 20141110 DK20150000450 20150807 WO2015EP76014 20151109

Probable Assignee: LUNDBECK AND CO H AS

Assignee(s): (std): H LUNDBECK A ; H LUNDBECK AS ; LUNDBECK AND CO H AS ; H LUNDBERCK AS

Assignee(s): H LUNDBERCK A S ; TAGMOSE LENA ; JUHL KARSTEN ; MARIGO MAURO ; HLUNDBECK A S ; HAE LUNDBECK AS ; H LUNDBECK A S

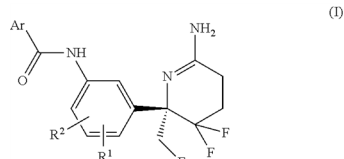
Inventor(s): (std): JUHL KARSTEN ; KARSTEN JUHL ; TAGMOSE LENA ; MARIGO MAURO ; MAURO MARIGO ; LENA TAGMOSE

Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; SARGENT AND KRAHN; JOSE ANDRES RINCON USCATEGUI; H LUNDBECK A S; ADOLF MARTUA PANGGABEAN; KOBAYASHI HIROSHI; OHMORI NORIO

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 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 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: 2-AMINO-5,5-DIFLUORO-6-(FLUOROMETHYL)-6-PHENYL-3,4,5,6-TETRAHYDROPYRIDINES AS BACE1 INHIBITORS

Abstract: The present invention is directed to compounds of Formula (I) which are inhibitors of the BACE1 enzyme. Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and uses of the compounds to treat disorders for which the reduction of A beta deposits is beneficial such as Alzheimer's disease.



Classifications:

International (IPC 8-9): [A61K31/4439](#)

[A61K31/444](#) [A61K31/496](#) [A61K31/497](#)

[A61K31/506](#) [A61P25/00](#) [A61P25/28](#) [A61P43/00](#)

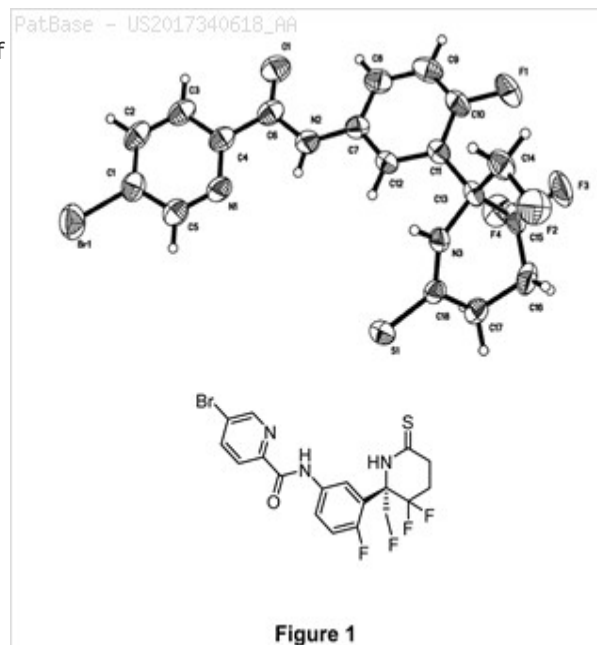
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CPC: [A61K31/4439](#) [A61K31/444](#) [C07D403/12](#)

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Family:

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EP3218364 A1	20170920	EP20150797622	20151109
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IN201717019709 A	20171103	IN201717019709	20170605
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WO16075064 A1	20160519	WO2015EP76017	20151109

Priority:

DK20140000647 20141110

DK20150000446 20150807

WO2015EP76017 20151109

Probable Assignee: LUNDBECK AND CO H AS

Assignee(s): (std): H LUNDBECK A ; H LUNDBECK AS ; LUNDBECK AND CO H AS

Assignee(s): TAGMOSE LENA ; MARIGO MAURO ; HLUNDBECK A S ; HAE LUNDBECK AS ; H LUNDBECK A S ; JUHL KARSTEN

Inventor(s): (std): TAGMOSE LENA ; MARIGO MAURO ; JUHL KARSTEN

Inventor(s): KARSTEN JUHL ; LENA TAGMOSE ; MAURO MARIGO

Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; JOSE ANDRES RINCON
USCATEGUI; H LUNDBECK A S; MAROLITA SETIATI; KOBAYASHI HIROSHI;
OHMORI NORIO

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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: COMBINATION TREATMENT COMPRISING ADMINISTRATION OF 2-AMINO-3,5,5-TRIFLUORO-3,4,5,6-TETRAHYDROPYRIDINES

Abstract: and a compound useful in active or passive Tau immunotherapy, a compound useful in active or passive A beta peptide immunotherapy, an NMDA receptor antagonists, an acetylcholine esterase inhibitor, an antiepileptic, an anti-inflammatory drug, a Tau aggregation inhibitor or an SSRI for the treatment of neurodegenerative or cognitive disorders.

Classifications:

International (IPC 8-9): [A61K31/13](#) [A61K31/27](#)

[A61K31/343](#) [A61K31/44](#) [A61K31/4433](#)

[A61K31/4439](#) [A61K31/444](#) [A61K31/445](#)

[A61K31/497](#) [A61K31/506](#) [A61K31/5415](#)

[A61K31/55](#) [A61K39/395](#) [A61K45/06](#)

[A61P25/28](#) (Advanced/Invention)

CPC: [A61K31/506](#) [A61K31/44](#) [A61K31/4439](#)

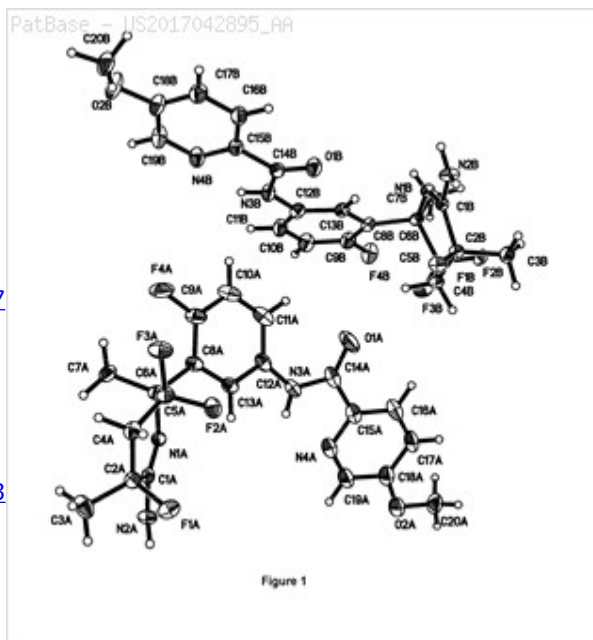
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[A61K39/395](#) [A61P25/28](#) [A61K2300/00](#)

US: [424/172.1](#)



Family:

Publication number	Publication date	Application number	Application date
AR105656 AA	20171025	AR2016P102441	20160809
AU2016305260 AA	20170216	AU20160305260	20160809
BR112017007306 A2	20180327	BR20171107306	20160809
CA2993623 AA	20180123	CA20162993623	20160809
CN107921138 A	20180417	CN201680045247	20160809
CO20180000711 A2	20180510	CO20180000711	20180125
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EP3334461 A1	20180620	EP20160756631	20160809
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KR20180035843 A	20180406	KR20187005381	20160809
PE06962018 A1	20180423	PE20180000223	20160809
TW201717948 A	20170601	TW20160124755	20160804
US2017042895 AA	20170216	US20160231182	20160808
WO17025532 A1	20170216	WO2016EP68947	20160809

Priority:

DK20150000456 20150810

DK20150000707 20151110

WO2016EP68947 20160809

Probable Assignee: H LUNDBECK A S

Assignee(s): (std): H LUNDBECK AS ; H LUNDBECK A

Assignee(s): H LUNDBECK A S ; HLUNDBECK A S ; JUHL KARSTEN ; MARIGO MAURO ; TAGMOSE LENA ; JENSEN THOMAS

Inventor(s): (std): JENSEN THOMAS ; JUHL KARSTEN ; KARSTEN JUHL ; LENA TAGMOSE ; MARIGO MAURO ; MAURO MARIGO ; TAGMOSE LENA ; THOMAS JENSEN

Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; JOSE ANDRES RINCON
USCATEGUI; H LUNDBECK A S

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
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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: 2-AMINO-3-FLUORO-3-(FLUOROMETHYL)-6-METHYL-6-PHENYL-3,4,5,6-TETRAHYDROPYRIDINES AS BACE1 INHIBITORS

Abstract: for the treatment of neurodegenerative or cognitive diseases. The method further provides for piperidine-2-one and piperidine-2-thione intermediates to compounds of formula I.

Classifications:

International (IPC 8-9): [A61K31/4427](#)
[A61K31/4439](#) [A61K31/444](#) [A61K31/497](#)
[A61K31/506](#) [A61P25/28](#) [C07B59/00](#) [C07D211/72](#)
[C07D211/76](#) [C07D401/12](#) [C07D403/12](#)
[C07D413/12](#) [C07D417/12](#) (Advanced/Invention)
CPC: [C07B59/002](#) [C07B2200/05](#) [C07D417/12](#)
[C07D211/72](#) [C07D401/12](#) [C07D413/12](#)
[C07D211/76](#) [A61K31/444](#) [A61P25/28](#)
US: [514/255.05](#)



Family:

Publication number	Publication date	Application number	Application date
AR105668 AA	20171025	AR2016P102458	20160810
AU2016305275 AA	20170216	AU20160305275	20160810
BR112017007472 A2	20180123	BR20171107472	20160810
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CN107849011 A	20180327	CN201680045234	20160810
CO20180000798 A2	20180510	CO20180000798	20180126
CR20180077 A	20180409	CR20180000077	20160810
DOP2018000040 A	20180430	DO20180000040	20180208
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IN201817002180 A	20180427	IN201817002180	20180118
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US2017044151 AA	20170216	US20160233463	20160810
WO17025559 A1	20170216	WO2016EP69029	20160810

Priority:

DK20150000465 20150812 WO2016EP69029 20160810

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Agent(s): SPRUSON AND FERGUSON; GOUDREAU GAGE DUBUC; JOSE ANDRES RINCON USCATEGUI; H LUNDBECK A S

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 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 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: ANTIBODIES SPECIFIC FOR HYPERPHOSPHORYLATED TAU AND METHODS OF USE THEREOF

Abstract: The present invention relates to a class of monoclonal antibody that specifically binds the phosphorylated serine 396 residue on pathological hyperphosphorylated (PHF) tau (pS396) with improved affinity, as well as to methods of using these molecules and their tau binding fragments in the treatment of Alzheimer's disease and other tauopathies.

Classifications:

International (IPC 8-9): [A61K39/395](#)

[A61K49/00](#) [A61P25/00](#) [A61P25/28](#) [C07K16/18](#)

[C07K16/28](#) [G01N33/68](#) (Advanced/Invention);

[A61K39/00](#) (Advanced/Non-invention)

CPC: [C07K16/18](#) [C07K2317/94](#) [C07K2317/75](#)

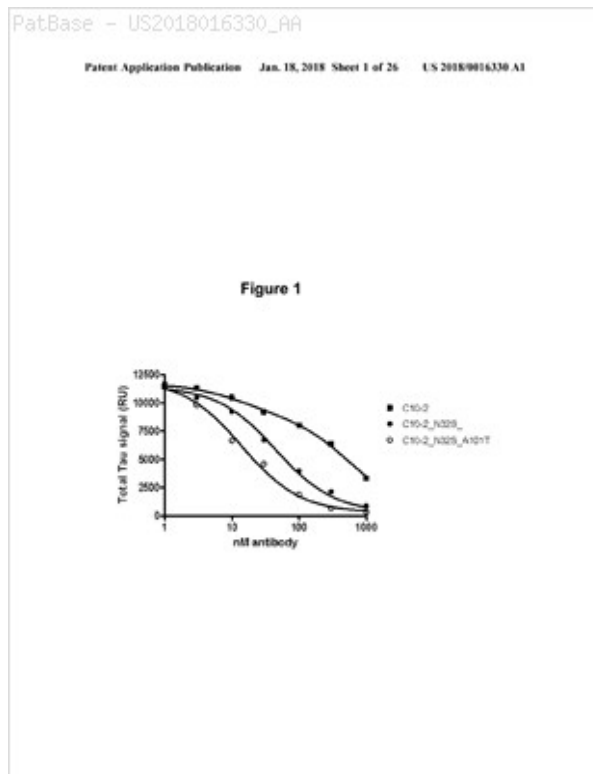
[C07K2317/565](#) [A61K2039/505](#) [C07K2317/51](#)

[C07K2317/34](#) [C07K2317/515](#) [A61K39/395](#)

[A61K49/00](#) [C07K2317/24](#) [C07K2317/30](#)

[C07K2317/33](#) [C07K2317/76](#) [C07K2317/92](#)

[G01N33/6896](#) [G01N2800/2821](#) [G01N2800/2814](#)



Family:

Publication number	Publication date	Application number	Application date
TW201809004 A	20180316	TW20170123060	20170710
US2018016330 AA	20180118	US20170645442	20170710
WO18011073 A1	20180118	WO2017EP67067	20170707

Priority:

DK20160000416 20160712

DK20170000005 20170104

DK20170000008 20170104

DK20170000179 20170314

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Assignee(s): H LUNDBECK A S

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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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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