

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 15-2565595						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		"Nav1.3 and Nav 1.7 peptide inhibitors" "sodium gated channel inhibitors" "NAV inhibitors"				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		C07K 14/435				
BASES DE DATOS CONSULTADAS.						
Google patents		Espacenet		USPTO		WIPO
Patbase		NCBI		The lens		
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
EUROPEA	16/03/12	WO 2011033358 WO 2010104114	1-29,58-69, 1-29,58-69 30-57,70-72	N		X
		WO 20101041 JP 2008000011 15 Kay B K, et al. Convergent evolution with combinatorial peptides FEBS LETTERS, 20000825 ELSEVIER, AMSTERDAM, NL. Vol: 480, Nr: 1, Page(s): 55 - 62	1-29,64 58-63 65-69	N	X	
USPTO	16/03/12	US 2009297520 (A1)	NA	A		X
		Ruta et al., "Localization of the Voltage-Sensor Toxin Receptor KvAP", Biochemistry, 2004, pp. 10071-10079	NA	A		X
		JP 2008-000011; 2008;English translation obtained from JPO and INPIT at https://www4.j-platpat.inpit.go.jp on 5/17/2015; pages 2-23	NA	A	X	
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Bosmans F. et al, "Targeting voltage sensors in sodium channels with spider toxins" Trends in Pharmacological Sciences Vol.31 No.4						
Seung Pyo Park, et al, "A tarantula spider toxin, GsMTx4, reduces mechanical and neuropathic pain" Pain 137 (2008) 208–217.						

Richard J. Lewis "Conotoxins as Selective Inhibitors of Neuronal Ion Channels, Receptors and Transporters" Institute for Molecular Biosciences, University of Queensland, QLD 4072					
Kuan Peng, et al "Function and Solution Structure of Huwentoxin-IV, a Potent Neuronal Tetrodotoxin (TTX)-sensitive Sodium Channel Antagonist from Chinese Bird Spider Selenocosmia huwena" THE JOURNAL OF BIOLOGICAL CHEMISTRY Vol. 277, No. 49, Issue of December 6, pp. 47564–47571, 2002					
Seigo Ono, et al, "Characterization of voltage-dependent calcium channel blocking peptides from the venom of the tarantula Grammostola rosea" Toxicon 58 (2011) 265–276.					
Yucheng Xiao, et al "The Tarantula Toxins ProTx-II and Huwentoxin-IV Differentially Interact with Human Nav1.7 Voltage Sensors to Inhibit Channel Activation and Inactivation" MOLECULAR PHARMACOLOGY Vol. 78, No. 6					
JonathanW, et al "Nav1.7 mutations associated with paroxysmal extreme pain disorder, but not erythromelalgia, enhance Navβ4 peptide-mediated resurgent sodium currents" J Physiol 589.3 (2011) pp 597–608.					
BÚSQUEDA DE SECUENCIAS Número de depósito / patente y N° de secuencia % de identidad					
SEQ ID NO (de la solicitud)	NCBI	The Lens	EMBL-EBI	DDJB	Genome Quest
23, 89, 123, 161, 170, 244, 245, 280, 282, 283, 286, 287, 289, 292, 294, 448, 454, 456, 458, 593	GI:475392922	US 8399026 /SEQ ID NO: 5			
	97%	97%, 94%			

CRITERIOS DE BÚSQUEDA / UNIDAD DE INVENCION (Pantallazos)

GTx1-15-2 [Grammostola rosea]

Sequence ID: [dbj|BAN13513.1](#) Length: 81 Number of Matches: 1

Range 1: 46 to 79 [GenPept](#) [Graphics](#)

▼ Next Match ▲ Previous Match

Score	Expect	Method	Identities	Positives	Gaps
75.9 bits(185)	2e-16	Compositional matrix adjust.	33/34(97%)	33/34(97%)	0/34(0%)

Query 1 DCLGFARKCIPDNDKCCRPNLVCSRTHKWCKYVF 34
DCLGF RKCIPDNDKCCRPNLVCSRTHKWCKYVF
Sbjct 46 DCLGFMKRCIPDNDKCCRPNLVCSRTHKWCKYVF 79

Sequence 5 from patent US 8399026

Sequence ID: [gb|AGO77464.1](#) Length: 34 Number of Matches: 1

Range 1: 1 to 34 [GenPept](#) [Graphics](#)

▼ Next Match ▲ Previous Match

Score	Expect	Method	Identities	Positives	Gaps
71.6 bits(174)	4e-17	Compositional matrix adjust.	33/34(97%)	33/34(97%)	0/34(0%)

Query 1 DCLGFARKCIPDNDKCCRPNLVCSRTHKWCKYVF 34
DCLGF RKCIPDNDKCCRPNLVCSRTHKWCKYVF
Sbjct 1 DCLGFMKRCIPDNDKCCRPNLVCSRTHKWCKYVF 34

Nav1.3 and Nav 1.7 peptide inhibitors

WebImágenesVideosNoticiasMás ▾Herramientas de búsqueda

Cerca de 25,500 resultados (0.69 segundos)

Alamanda Polyamino Acids - alamanda-polymers.com

Anuncio www.alamanda-polymers.com/ ▾

Homo-, Co- & PEGylated Polypeptides Monodisperse & Custom Chain Length

Artículos académicos para Nav1.3 and Nav 1.7 peptide inhibitors

Voltage-gated sodium channel blockers; target ... - Wood - Mencionado por 39

... SmIIIA, a potent inhibitor of tetrodotoxin-resistant ... - West - Mencionado por 90

Sensory neuron voltage-gated sodium channels as ... - Momin - Mencionado por 63

sodium gated channel inhibitors

WebImágenesVideosNoticiasMás ▾Herramientas de búsqueda

Cerca de 1,110,000 resultados (0.22 segundos)

Artículos académicos para sodium gated channel inhibitors

Voltage-gated sodium channels and pain pathways - Wood - Mencionado por 296

The crystal structure of a voltage-gated sodium channel - Payandeh - Mencionado por 516

... and function of voltage-gated sodium channels - Catterall - Mencionado por 1591

ProTx-II, a Selective Inhibitor of NaV 1.7 Sodium Channels ...

molpharm.aspetjournals.org/content/.../1476.full.pdf ▾ Traducir esta página

por WA Schmalhofer - 2008 - Mencionado por 96 - Artículos relacionados

31 mar. 2008 - venom peptide ProTx-II selectively interacts with NaV1.7 chan- nels, inhibiting ... Recently, three publications have shown that loss-of-func-

Patent WO2012125973A2 - Potent and selective inhibitors ...

www.google.com/patents/WO2012125973A2?cl=en ▾

20 sept. 2012 - Potent and selective inhibitors of nav1.3 and nav1.7 [0008] The a-

subunits of TTX-sensitive, voltage-gated Nav 1.7 channels are minimized to a

lactam-stabilized helical peptide scaffold with Nav inhibitory activity. (See ...

Nav1.7 - Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/Nav1.7 ▾ Traducir esta página

Nav1.7. From Wikipedia, the free encyclopedia. Jump to: navigation, search ... Nav1.7

is a sodium ion channel that in humans is encoded by the SCN9A gene. ... that change

important and highly conserved amino acid residues of the Nav1.7 protein. ... In

addition, inhibition of these channels is also likely responsible for the ...

The NaV1.7 sodium channel: from molecule to man : Article ...

www.nature.com ▾ Journal home ▾ Archive ▾ Review ▾ Traducir esta página

por SD Dib-Hajj - 2013 - Mencionado por 89 - Artículos relacionados

12 dic. 2012 - Jump to main content; Jump to navigation; nature.com homepage -

Publications A-Z Sodium channels associate with multiple protein partners that

regulate ... Three sodium channels — NaV1.7, NaV1.8 and NaV1.9 — are such as

substance P. If this speculation is correct, then NaV1.7 inhibitors that ...

Inhibition of voltage-gated Na⁺ channels by the synthetic ...

www.ncbi.nlm.nih.gov/pubmed/24755846 ▾ Traducir esta página

por N Foadi - 2014 - Mencionado por 2 - Artículos relacionados

METHOD: The inhibition of sodium inward currents by chloride acid was studied in

PatBase

Menu ▾ Search ▾ History ▾ Session ▾ Folder ▾ Order Help ▾ Logoff

Search 5: TAC=(NAV~ AND INHIBITORS~)

Results 95

Explore search

#	Search query	Results	Options
5	TAC=(NAV~ AND INHIBITORS~)	95	View Browse Hits Optimise more...
4	TAC=(SODIUM~ AND GATED~ AND CHANEL~ AND INHIBITORS~)	0	
3	TAC=(NAV~ AND CHANEL~ AND PEPTIDE~ AND INHIBITORS~)	0	
2	TAC=(NAV1.3~ AND NAV~ 1.7~ PEPTIDE~ INHIBITORS~)	0	
1			

Cerca de 169,000 resultados (0.31 segundos)

Sugerencia: [Buscar solo resultados en español](#) . Puedes especificar el idioma de búsqueda en [Preferencias](#)

Voltage sensor interaction site for selective small molecule ...

www.ncbi.nlm.nih.gov/pubmed/23818614 ▾ Traducir esta página

por K McCormack - 2013 - [Mencionado por 21](#) - [Artículos relacionados](#)

1 jul. 2013 - Here we describe two unique structurally related nanomolar potent small molecule Nav channel inhibitors that exhibit up to 1,000-fold ...

ProTx-II, a Selective Inhibitor of NaV 1.7 Sodium Channels ...

molpharm.aspetjournals.org/content/.../1476.full.pdf ▾ Traducir esta página

por WA Schmalhofer - 2008 - [Mencionado por 96](#) - [Artículos relacionados](#)

31 mar. 2008 - ProTx-II, a Selective Inhibitor of NaV. 1.7 Sodium Channels,. Blocks Action Potential Propagation in Nociceptors. William A. Schmalhofer ...

Full Text (PDF)

www.pnas.org/content/110/29/E2724.full.pdf ▾ Traducir esta página

por K McCormack - 2013 - [Mencionado por 21](#) - [Artículos relacionados](#)

1 jul. 2013 - potent small molecule Nav channel inhibitors that exhibit up to. 1,000-fold ... Many synthetic small molecule inhibitors of Nav channels, in-

Pharmacology: Principles and Practice

<https://books.google.com.co/books?isbn...> - Traducir esta página

Miles Hacker, William S. Messer II, Kenneth A. Bachmann - 2009 - Science

... (Section 16.5.1.1) on lobster giant axons by Narahashi and colleagues showed, for the first time, that TTX is a highly specific and potent NaV channel inhibitor.

Sodium Channels, Pain, and Analgesia

<https://books.google.com.co/books?isbn...> - Traducir esta página

Kevin Coward, Mark D. Baker - 2006 - Medical

Despite support for this rationale and for efficacy of NaV inhibitors in animal models (see [62]), as with other types of anticonvulsant, this has yet to be ...

[PDF] Targeting voltage-gated sodium channels for pain ... - Ind...

literature.drgoreonline.com/25.pdf ▾ Traducir esta página

por JJ Clare - 2010 - [Mencionado por 38](#) - [Artículos relacionados](#)

1. Introduction. 2. Validation of individual Nav subtypes as pain targets. 3. Properties of current therapeutic Nav inhibitors. 4. Advances in Nav screening.

Annual Reports in Medicinal Chemistry

<https://books.google.com.co/books?isbn...> - Traducir esta página