



(12) Translation of
European patent specification

(11) NO/EP 2806877 B1

NORWAY

(19) NO
(51) Int Cl.
A61K 31/57 (2006.01)
A61K 47/69 (2017.01)
A61P 25/00 (2006.01)
A61P 25/08 (2006.01)

Norwegian Industrial Property Office

(21)	Translation Published	2020.01.13
(80)	Date of The European Patent Office Publication of the Granted Patent	2019.10.09
(86)	European Application Nr.	13740743.3
(86)	European Filing Date	2013.01.23
(87)	The European Application's Publication Date	2014.12.03
(30)	Priority	2012.01.23, US, 201261589740 P
(84)	Designated Contracting States:	AL ; AT ; BE ; BG ; CH ; CY ; CZ ; DE ; DK ; EE ; ES ; FI ; FR ; GB ; GR ; HR ; HU ; IE ; IS ; IT ; LI ; LT ; LU ; LV ; MC ; MK ; MT ; NL ; NO ; PL ; PT ; RO ; RS ; SE ; SI ; SK ; SM ; TR
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(54)	Title	NEUROACTIVE STEROID FORMULATIONS COMPRISING A COMPLEX OF ALLOPREGNANOLONE AND SULFOBUTYL ETHER BETA-CYCLODEXTRIN
(56)	References Cited:	WO-A1-2014/085668 WO-A1-2011/088503 WO-A2-2014/031792 WO-A1-93/03732 US-A1- 2009 221 544 US-A1- 2011 236 487 WO-A2-02/30409 T.G. KOKATE ET AL: "Neuroactive steroids protect against pilocarpine- and kainic acid-induced limbic seizures and status epilepticus in mice", NEUROPHARMACOLOGY., vol. 35, no. 8, 1 January 1996 (1996-01-01), pages 1049-1056, XP055239062, GB ISSN: 0028-3908, DOI: 10.1016/S0028-3908(96)00021-4 ZOLKOWSKA: "ANTICONVULSANT ACTIVITY OF INTRAVENOUS AND INTRAMUSCULAR ALLOPREGNENALONE", AMERICAN EPILEPSY SOCIETY: 2012 ANNUAL MEETING ABSTRACTS, 1 December 2012 (2012-12-01), XP55176480, ZOLKOWSKA ET AL.: 'Anticonvulsant Activity of Intravenous and Intramuscular

Allopregnenalone' AMERICAN EPILEPSY SOCIETY: 2012 ANNUAL MEETING ABSTRACTS
 01 December 2012, XP055176480 Retrieved from the Internet:
 <URL:http://www.grupio.com/events/session.php?id=392260&event_id=327&track=Poster+Session+I> [retrieved on 2013-02-23]
 HE J ET AL: "862.4: Allopregnanolone facilitates spatial learning after traumatic brain injury",
 ABSTRACTS OF THE ANNUAL MEETING OF THE SOCIETY FOR NEUROSCIENCE; 30TH
 ANNUAL MEETING OF THE SOCIETY OF NEUROSCIENCE, SOCIETY FOR
 NEUROSCIENCE, WASHINGTON, DC, US; NEW ORLEANS, LA, USA, vol. 26, 1 January 2000
 (2000-01-01), page 2296, XP008178500, ISSN: 0190-5295
 LONSDALE ET AL: "The anticonvulsant effects of allopregnanolone against amygdala-kindled
 seizures in female rats", NEUROSCIENCE LETTERS, LIMERICK, IE, vol. 411, no. 2, 29
 November 2006 (2006-11-29), pages 147-151, XP005785431, ISSN: 0304-3940, DOI:
 10.1016/J.NEULET.2006.10.023

Enclosed is a translation of the patent claims in Norwegian. Please note that as per the Norwegian Patents Acts, section 66i the patent will receive protection in Norway only as far as there is agreement between the translation and the language of the application/patent granted at the EPO. In matters concerning the validity of the patent, language of the application/patent granted at the EPO will be used as the basis for the decision. The patent documents published by the EPO are available through Espacenet (<http://worldwide.espacenet.com>) or via the search engine on our website here: <https://search.patentstyret.no/>

Patentkrav

1. En vandig farmasøytisk sammensetning formulert for parenteral administrering omfattende et kompleks omfattende allopregnanolon og sulfobutyleter- β -syklodekstrin, hvor allopregnanolon-et er i en konsentrasjon på 5 mg / ml og sulfobutyleter- β -syklodekstrin er i en konsentrasjon mellom 25-400 mg / ml hvor formuleringen er bufret til en pH på 6 og bufferen er en sitratbuffer.
2. Vandig farmasøytisk sammensetning ifølge krav 1, hvor formuleringen omfatter en antioksidant.
3. Vandig farmasøytisk sammensetning ifølge et hvilket som helst av kravene 1 til 2, hvor sammensetningen er formulert for intravenøs administrering.
4. Vandig farmasøytisk sammensetning ifølge et hvilket som helst av kravene 1 til 2, hvor sammensetningen er formulert for intramuskulær (IM) injeksjon, subkutan (SC) injeksjon, intratekal administrering eller administrering via lunge-, nasal- eller slimhinneveier.
5. Vandig farmasøytisk sammensetning ifølge et hvilket som helst av kravene 1 til 2, hvor sammensetningen er formulert for intramuskulær administrering.