



(12) Translation of
European patent specification

(11) NO/EP 3144295 B1

NORWAY

(19) NO
(51) Int Cl.
C07C 231/02 (2006.01)
C07C 231/12 (2006.01)

Norwegian Industrial Property Office

(21)	Translation Published	2019.05.06
(80)	Date of The European Patent Office Publication of the Granted Patent	2018.12.05
(86)	European Application Nr.	15003058.3
(86)	European Filing Date	2015.10.23
(87)	The European Application's Publication Date	2017.03.22
(30)	Priority	2015.09.18, IN, 5001CH2015
(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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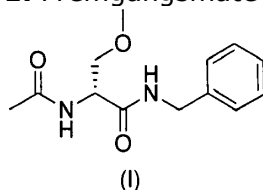
(54) Title **PROCESS FOR THE PREPARATION OF LACOSAMIDE**

(56) References
Cited: EP-A1- 2 399 901, WO-A1-2011/095995, US-A- 5 773 475, WO-A2-2011/144983,
WO-A1-2011/099033

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/>

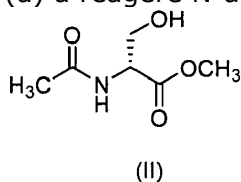
Patentkrav

1. Fremgangsmåte for fremstilling av lakosamid med formelen (I):

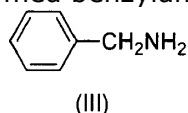


5 omfattende trinnene:

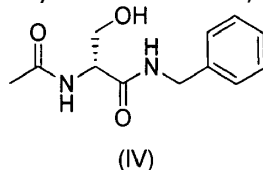
(a) å reagere N-acetyl-D-serinmetylester med formelen (II),



med benzylamin med formel (III)



10 ved en temperatur under 40° C, i nærvær av en ikke-nukleofil base, for å fremstille et benzylamidderivat med formelen (IV) med en enantiomerisk renhet som er høyere enn 95 % ; og



15 (b) å utsette benzylamidet med formelen (IV) oppnådd i trinn (a) for en metyleringsreaksjon ved å anvende dimetylsulfat i nærvær av en base.

2. Fremgangsmåte ifølge krav 1, hvori den ikke-nukleofile basen er valgt fra gruppen: trietylamin, diisopropyletylamin (DIPEA), N-metylmorfolin (NMM), 1,4-diazabisyklo-[2.2.2]oktan (DABCO) og 1,8-diazabisyklo[5.4.0]undek-7-en (DBU).

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3. Fremgangsmåte ifølge krav 2, hvori den ikke-nukleofile basen er trietylamin.

4. Fremgangsmåte ifølge krav 1 trinn-a, hvori reaksjonen mellom (II) og benzylamin (III) utføres ved 25 °C.