Product datasheet

Nefiracetam, ACh and NMDA agonist ab142529

Overview

Product name
Nefiracetam, ACh and NMDA agonist

Description
Nootropic agent. Potent ACh and NMDA agonist.

Biological description
Nootropic. Potentiates ACh currents (EC$_{50}$ = 1 nM, α4β2 receptor in cortical neurons) and NMDA currents, via interaction with the glycine binding site (EC$_{50}$ = 10 nM). Shows potent neuroprotective effects and anticonvulsant effects in vivo.

Purity
> 98%

CAS Number
77191-36-7

Chemical structure

Properties

Chemical name
N-(2,6-Dimethylphenyl)-2-(2-oxopyrrolidin-1-yl)acetamide

Molecular weight
246.30

Molecular formula
C$_{14}$H$_{18}$N$_2$O$_2$

PubChem identifier
71157

Storage instructions
Store at Room Temperature. The product can be stored for up to 12 months.

Solubility overview
Soluble in DMSO to 100 mM and in ethanol to 100 mM

Handling
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES
CC1=C(C(=CC=C1)C)NC(=O)CN2CCCC2=O

Source
Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"
Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team