

Certificate of Analysis

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Product Name: Pregabalin

Catalog No.: 3775

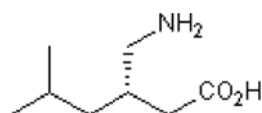
Batch No.: 1

CAS Number: 148553-50-8

IUPAC Name: (S)-3-(Aminomethyl)-5-methylhexanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₇NO₂
Batch Molecular Weight: 159.23
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +16 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.35	10.76	8.8
Found	60.43	10.83	8.85

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 1

CAS Number: 148553-50-8

IUPAC Name: (S)-3-(Aminomethyl)-5-methylhexanoic acid

Description:

Anticonvulsant and antiepileptic; also used to treat neuropathic pain. Binds with high affinity and selectivity to the $\alpha_2\delta$ subunit of voltage-sensitive Ca^{2+} channels and modulates their activity. Displays anxiolytic-like activity in ethological and conflict models of anxiety. Analog of GABA (Cat. No. 0344).

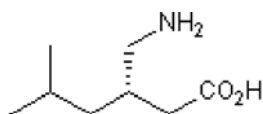
Physical and Chemical Properties:

Batch Molecular Formula: $C_8H_{17}NO_2$

Batch Molecular Weight: 159.23

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 3 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Kumar *et al* (2010) Evidence that prega. reduces neuropathic pain by inhibiting the spinal release of glutamate. *J.Neurochem.* **113** 552. PMID: 20132471.

Arain (2009) Pregabalin in the management of partial epilepsy. *Neuropsych.Dis.Treat.* **5** 407.

Field *et al* (2001) Pregabalin may represent a novel class of anxiolytic agents with a broad spectrum of activity. *Br.J.Pharmacol.* **132** 1. PMID: 11156553.

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