

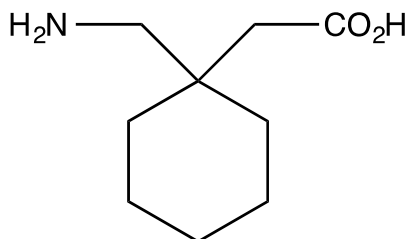
Catalog # 10-2042

Gabapentin

CAS# 60142-96-3

1-(Aminomethyl)cyclohexane; Neurontin

Lot # FBS1028



Gabapentin is an approved drug for treatment of various types of neuropathic pain and some forms of epilepsy. The mechanism of action of gabapentin is not well understood. Despite being a structural mimic of GABA, it does not bind to GABA receptors at concentrations up to 1 mM.^{1,2} Some of its actions may be due to disrupting calcium channels.³

- 1) Cheng *et al.* (2004), *Does gabapentin act as an agonist at native GABA(B) receptors?*; J.Biomed.Sci. **11** 346
- 2) Lanneau *et al.* (2001), *Gabapentin is not a GABAB receptor agonist*, Neuropharmacology **41** 965
- 3) Hendrich *et al.* (2008), *Pharmacological disruption of calcium channel trafficking by the alpha2delta ligand gabapentin*; Proc.Natl.Acad.Sci.USA **105** 3628

PHYSICAL DATA

Molecular Weight:	171.24
Molecular Formula:	C ₉ H ₁₇ NO ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Water (10 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in water may be stored at -20°C for up to 3 months.

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