



LKT Laboratories, Inc.

## Gabapentin

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### Product Information

**Product ID** G0106

**CAS No.** 60142-96-3

**Chemical Name** 1-(Aminomethyl)-cyclohexaneacetic acid

**Synonym** GOE-3450, Neurontin

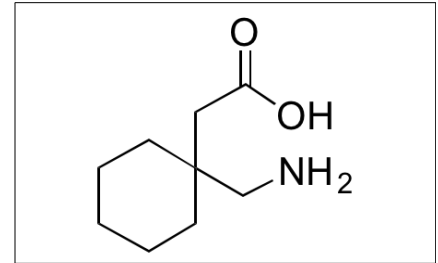
**Formula** C<sub>9</sub>H<sub>17</sub>NO<sub>2</sub>

**Formula Wt.** 171.24

**Melting Point** 162-166 °C

**Purity** ≥98%

**Solubility** Soluble in water (pH 7.4).



**Bulk quantities available upon request**

Product ID	Size
G0106	10 mg
G0106	50 mg
G0106	250 mg

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Gabapentin exhibits antiepileptic/anticonvulsant, sedative, analgesic, and antinociceptive activities. Gabapentin is a GABA analog that does not bind GABA receptors. Gabapentin binds the  $\alpha 2\delta$  subunit of voltage-gated Ca<sup>2+</sup> channels, decreasing Ca<sup>2+</sup> currents and inhibiting Ca<sup>2+</sup> signaling; gabapentin also activates adenosine A1 receptors, binds NMDA receptors, and potentiates the effects of GABA signaling. Gabapentin is clinically used to prevent seizures and to treat neuropathic, inflammatory, and cancer-related pain.

**References** Kukkar A, Bali A, Singh N, et al. Implications and mechanism of action of gabapentin in neuropathic pain. Arch Pharm Res. 2013 Mar;36(3):237-51. PMID: 23435945.

Davies A, Hendrich J, Van Minh AT, et al. Functional biology of the alpha(2)delta subunits of voltage-gated calcium channels. Trends Pharmacol Sci. 2007 May;28(5):220-8. PMID: 17403543.

Johannessen SI, Ben-Menachem E. Management of focal-onset seizures: an update on drug treatment. Drugs. 2006;66(13):1701-25. PMID: 16978035.

Ho KY, Gan TJ, Habib AS. Gabapentin and postoperative pain--a systematic review of randomized controlled trials. Pain. 2006 Dec 15;126(1-3):91-101. PMID: 16846695.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.