

Product Name: Vigabatrin

Catalog No.: 0808

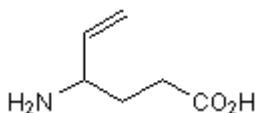
Batch No.: 8

CAS Number: 60643-86-9

IUPAC Name: 4-Aminohexenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₁₁NO₂
Batch Molecular Weight: 129.16
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.8	8.58	10.84
Found	55.83	8.39	10.82

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Product Name: Vigabatrin

Catalog No.: 0808

Batch No.: 8

CAS Number: 60643-86-9

IUPAC Name: 4-Aminohexenoic acid

Description:

Selective GABA-T (transaminase) inhibitor. Anticonvulsant.

Physical and Chemical Properties:

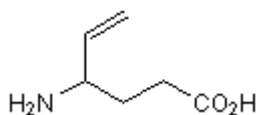
Batch Molecular Formula: C₆H₁₁NO₂

Batch Molecular Weight: 129.16

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline 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.

References:

Larsson et al (1986) Differential effect of gamma-vinyl GABA and valproate on GABA transaminase from cultured neurones and astrocytes. *Neuropharmacology* **25** 617. PMID: 3092125.

Halonen et al (1991) Effects of vigabatrin (γ-vinyl GABA) on neurotransmission-related amino acids and on GABA and benzodiazepine receptor binding in rats. *Epilepsia* **32** 242. PMID: 1672276.

Schmid et al (1996) Vigabatrin modulates benzodiazepine receptor activity *in vivo*: a positron emission tomography study in baboon. *J.Pharmacol.Exp.Ther.* **276** 977. PMID: 8786578.

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