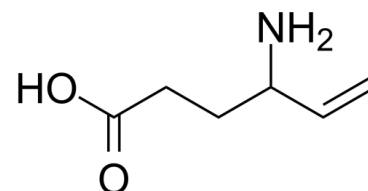


Data Sheet

Product Name:	Vigabatrin
Cat. No.:	CS-0791
CAS No.:	68506-86-5
Molecular Formula:	C ₆ H ₁₁ NO ₂
Molecular Weight:	129.16
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	H ₂ O : 50 mg/mL (387.12 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Vigabatrin(γ -Vinyl-GABA; Sabril) is a structural analog of the inhibitory neurotransmitter γ -aminobutyric acid (GABA) that irreversibly inhibits the catabolism of GABA by GABA transaminase. IC₅₀ value: Target: GABA transaminase Clinical studies have shown that vigabatrin is superior to placebo in decreasing the frequency of infantile spasms. In tuberous sclerosis, vigabatrin may be considered the first-line treatment for IS. The mode of action is increasing concentrations of the inhibitory neurotransmitter GABA in the brain. A significant increase in seizure threshold was observed following systemic (i.p.) administration of high (600 or 1200 mg/kg) doses of vigabatrin. Bilateral microinjection of vigabatrin (10 μ g) into either the anterior or posterior SNr also increased seizure threshold, but less markedly than systemic treatment.

References:

- [1]. Broeer, et al. Vigabatrin for focal drug delivery in epilepsy: Bilateral microinfusion into the subthalamic nucleus is more effective than intranigral or systemic administration in a rat seizure model. *Neurobiology of Disease* (2012), 46(2), 362-376.
- [2]. Gaily, Eija Vigabatrin monotherapy for infantile spasms. *Expert Review of Neurotherapeutics* (2012), 12(3), 275-286.
- [3]. Russo, et al. Vigabatrin has antiepileptogenic and antidepressant effects in an animal model of epilepsy and depression comorbidity. *Behavioural Brain Research* (2011), 225(1), 373-376.
- [4]. Vigabatrin

CAIndexNames:

5-Hexenoic acid, 4-amino-

SMILES:

C=CC(N)CCC(=O)O

Caution: Product has not been fully validated for medical applications. For research use only.

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