

Tiagabine

Chemical Properties

CAS No. : 115103-54-3

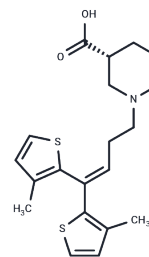
Formula: C₂₀H₂₅NO₂S₂

Molecular Weight: 375.55

Store under nitrogen

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tiagabine (NO050328) is an Anti-epileptic Agent. The physiologic effect of tiagabine is by means of Decreased Central Nervous System Disorganized Electrical Activity.
Targets(IC50)	GABA Receptor
In vitro	Tiagabine is a potent inhibitor of GABA uptake into neurons and glial cells. It is involved in modulating GABA levels, especially in areas such as the hippocampus and thalamus [2]. Tiagabine not only affected the decay kinetics of the IPSCs, it also reduced the frequency of occurrence of both spontaneous and miniature IPSCs[1].
In vivo	Tiagabine offers a significant neuroprotection in global ischemia in gerbils when given 30 min before ischemia but not when given 3 h after ischemia[3].

Solubility Information

Solubility	DMSO: 150 mg/mL (399.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6628 mL	13.3138 mL	26.6276 mL
5 mM	0.5326 mL	2.6628 mL	5.3255 mL
10 mM	0.2663 mL	1.3314 mL	2.6628 mL
50 mM	0.0533 mL	0.2663 mL	0.5326 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Chen L, et al. Exp Brain Res. 2003, 152(2):263-9.
Angehagen M, et al. Neurochem Res. 2003, 28(2):333-40.
Iqbal S, et al. Brain Res. 2002, 946(2):162-70.

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