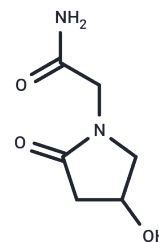


Oxiracetam

Chemical Properties

CAS No. :	62613-82-5
Formula:	C ₆ H ₁₀ N ₂ O ₃
Molecular Weight:	158.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oxiracetam (ISF2522), a cyclic derivative of gamma-aminobutyric acid (GABA), is utilized for the treatment of cognitive impairments.
Targets(IC50)	GABA Receptor, NO Synthase
In vitro	In BALB/c mice, Oxiracetam (50 mg/kg i.p.) has been shown to improve avoidance acquisition. Similarly, in rats, pretreatment with Oxiracetam (30 mg/kg) has demonstrated efficacy in ameliorating cognitive deficits induced by trimethyltin.

Solubility Information

Solubility	DMSO: 10 mg/mL (63.23 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	6.3227 mL	31.6136 mL	63.2271 mL
5 mM	1.2645 mL	6.3227 mL	12.6454 mL
10 mM	0.6323 mL	3.1614 mL	6.3227 mL
50 mM	0.1265 mL	0.6323 mL	1.2645 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

- Sansone M, et al. Arch Int Pharmacodyn Ther. 1985, 275(1), 86-92.
Spignoli G, et al. Pharmacol Biochem Behav. 1987, 27(3), 491-495.
Hlinák Z, et al. Behav Brain Res. 2005, 161(2), 213-219

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