Data Sheet (Cat.No.T1128)



Oxiracetam

Chemical Properties

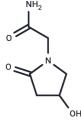
CAS No.: 62613-82-5

Formula: C6H10N2O3

Molecular Weight: 158.16

Appearance: no data available

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



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 |
| 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),

(< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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.

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