

(R)-Oxiracetam

## Chemical Properties

CAS No.:	68252-28-8
Formula:	C <sub>6</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	158.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	(R)-Oxiracetam is the (R)-enantiomer of the nootropic drug oxiracetam. Oxiracetam is a nootropic drug of the racetam family and stimulant.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Oxiracetam is a nootropic drug of the racetam family and stimulant. Several animal studies suggest that the substance is safe even when high doses are consumed for a long period of time. Oxiracetam is not approved by the Food and Drug Administration for any medical use in the United States [1][2].

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (316.14 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.323 mL	31.614 mL	63.227 mL
5 mM	1.265 mL	6.323 mL	12.645 mL
10 mM	0.632 mL	3.161 mL	6.323 mL
50 mM	0.126 mL	0.632 mL	1.265 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

- Malykh AG, et al. Piracetam and piracetam-like drugs: from basic science to novel clinical applications to CNS disorders. *Drugs*. 2010 Feb 12;70(3):287-312.
- Valzelli L, et al. Difference in learning and retention by Albino Swiss mice. Part III. Effect of some brain stimulants. *Methods Find Exp Clin Pharmacol*. 1986 Jun;8(6):337-41.

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