



Oxiracetam PRODUCT DATA SHEET

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Product Name:	Oxiracetam
Product Number:	O040
CAS Number:	62613-82-5
Molecular Formula:	C ₆ H ₁₀ N ₂ O ₃
Molecular Weight:	158.157
Form:	Powder
Appearance:	white crystalline powder
Solubility:	very soluble in water
Source:	Synthetic
Storage Conditions:	2-8°C
Description:	Oxiracetam is nootropic agent of the racetam family, a very mild stimulant that has been shown to improve memory and learning. It is a derivative of γ -aminobutyric acid (GABA,) the chief inhibitory neurotransmitter in mammals.
Mechanism of Action:	The mechanism of action of Oxirectam is not yet known, but it may modulate glutamatergic neurotransmission. In mice, it interacts with the glutamatergic NMDA receptor system, forestalling the impairment of retrieval of long-term memory.
References:	Copani A et al (1992) Nootropic Drugs Positively Modulate alpha[amino][3] hydroxy[5]methyl[4]isoxazolepropionic acid[ensitive glutamate receptors in neuronal cultures. J. Neurochem. 58(4):1199-1204 PMID 1372342 Hlinák Z and Krejčí I (2000) Oxiracetam prevents the MK-801 induced amnesia for the elevated plus-maze in mice. Behav Brain Res. 117(1-2):147-151 PMID 11099768

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