

# Pramiracetam

## Catalog No: tcsc1573



### Available Sizes

**Size:** 50mg

**Size:** 200mg



### Specifications

**CAS No:**

68497-62-1

**Formula:**

$C_{14}H_{27}N_3O_2$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 100$  mg/mL (371.22 mM)

**Observed Molecular Weight:**

269.38

## Product Description

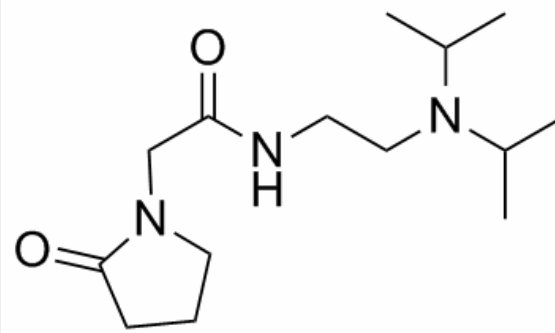
Pramiracetam is a nootropic drug derived from piracetam, and is more potent. Pramiracetam reportedly improved cognitive deficits associated with traumatic brain injuries.

IC50 Value:

Target:

in vitro: Pramiracetam sulfate did not exhibit any affinity in vitro for dopaminergic , GABAergic, serotonergic, adrenergic, muscarinic, adenosine (IC<sub>50</sub> > 10  $\mu$ M), and benzodiazepine receptors (IC<sub>50</sub> > 1  $\mu$ M) binding sites [1].

in vivo: In a double-blind, randomized design, two groups of six subjects each received alternating placebo and single 400, 800, 1,200, and 1,600 mg oral doses of pramiracetam after an overnight fast. Mean (+/- SD) peak plasma concentrations of the four dose groups (2.71 +/- 0.54, 5.40 +/- 1.34, 6.13 +/- 0.71, 8.98 +/- 0.71 micrograms/mL) were attained between two to three hours following drug administration [2]. Two doses of pramiracetam (7.5 mg/kg and 15 mg/kg) were administered daily prior to testing for 7 weeks in a 16-arm radial maze in which nine arms were baited with food [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!