

# Aniracetam

Catalog No: tcsc1793



## Available Sizes

Size: 1g

Size: 5g



## Specifications

**CAS No:**

72432-10-1

**Formula:**

$C_{12}H_{13}NO_3$

**Pathway:**

Neuronal Signaling;Membrane Transporter/Ion Channel;Membrane Transporter/Ion Channel;Neuronal Signaling

**Target:**

nAChR;nAChR;iGluR;iGluR

**Purity / Grade:**

>98%

**Solubility:**

H2O : 0.33 mg/mL (1.51 mM; Need ultrasonic); DMSO :  $\geq$  100 mg/mL (456.12 mM)

**Alternative Names:**

Ro 13-5057

**Observed Molecular Weight:**

219.24

## Product Description

Aniracetam(Ro 13-5057) is a nootropics and neuroprotective drug, which is selectively modulates the AMPA receptor and nAChR.

Target: AMPA; nAChR

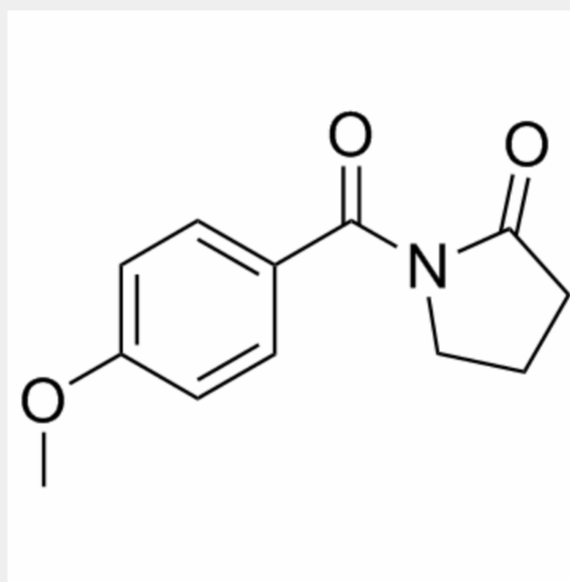
Aniracetam is an ampakine and nootropic of the racetam chemical class purported to be considerably more potent than piracetam. It selectively modulates the AMPA receptor. It is lipid soluble and has possible cognition enhancing effects. It has been tested in animals extensively, Alzheimer's patients and temporarily-impaired healthy subjects. It has shown potential as an anxiolytic in three clinical animal models [1].

Administration of aniracetam for 10 days (post-natal days (PND) 18-27), at a dose of 50 mg/kg reversed cognitive deficits in both rat genders, indicated by a significant increase in the number of avoidances and the number of 'good learners'. After the termination of the nootropic treatment, a significant increase in both amplitude and frequency of AMPA receptor-mediated mEPSCs in hippocampal CA-1 pyramidal cells was observed [2].

Clinical indications: Cognitive disorder; Stroke

FDA Approved Date:

Toxicity: insomnia; headaches; nausea or rash.



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