

# Phenylpiracetam

Catalog No: tcsc1574



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

77472-70-9

**Formula:**

$C_{12}H_{14}N_2O_2$

**Pathway:**

Neuronal Signaling; Membrane Transporter/Ion Channel

**Target:**

GABA Receptor; GABA Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

218.25

## Product Description

Phenylpiracetam(Phenotropyl; Phenotropil) is a phenylated derivative of the nootropic drug piracetam. It is used as a stimulant

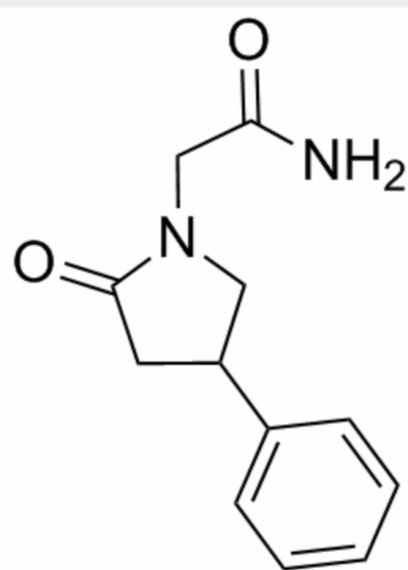
nootropic drug that can be up to 30-60 times more potent than piracetam.

IC50 Value:

Target: AMPA receptor allosteric modulator

in vitro: N/A

in vivo: In the open-field test, a significant increase in locomotor activity was observed after a single administration of R-phenotropil at doses of 10 and 50 mg/kg and S-phenotropil at a dose of 50 mg/kg. In the forced swim test, R-phenotropil induced an antidepressant effect at doses of 100 and 50 mg/kg, and S-phenotropil was active at a dose of 100 mg/kg. R-phenotropil significantly enhanced memory function in a passive avoidance response test at a dose of 1 mg/kg; the S-enantiomer did not show any activity in this test [1].



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