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Product Information

Product ID A5326

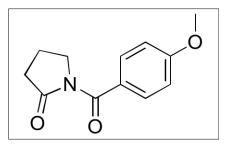
Ship Temp Ambient

CAS No. 72432-10-1

Chemical Name 1-(4-Methoxybenzoyl)-2-pyrrolidinone

Synonym Ro-13-5057, Draganon, Sarpul

FormulaC12H13NO3Formula Wt.219.24Melting Point121-122°CPurity≥98%SolubilitySoluble in chloroform and
ethyl acetate. Slightly
soluble in ethanol. Insoluble
in water.Store TempAmbient



Bulk quanitites available upon request

Product ID	Size
45326	25 mg
45326	100 mg
45326	500 mg
45326	1 g

Description Aniracetam is a nootropic ampakine that exhibits anxiolytic and neuroprotective activities. Aniracetam acts as a positive allosteric modulator of AMPA receptors, slowing receptor deactivation; it also acts on D2 receptors, 5-HT2A receptors, and nicotinic acetylcholine receptors (nAChRs), likely displaying agonist activity. Aniracetam decreases anxiety in vivo in the condition fear stress test, elevated plus maze test, and in social interaction tests. Additionally, this compound inhibits H2O2-induced deficits in long-term potentiation and neuron viability. Aniracetam shows some clinical benefit in the enhancement of cognitive deficits associated with stroke and Alzheimer's disease.

References Wang YF, Li CC, Cai JX. Aniracetam attenuates H2O2-induced deficiency of neuron viability, mitochondria potential and hippocampal long-term potentiation of mice in vitro. Neurosci Bull. 2006 Sep;22(5):274-80. PMID: 17690727.

Jin R, Clark S, Weeks AM, et al. Mechanism of positive allosteric modulators acting on AMPA receptors. J Neurosci. 2005 Sep 28;25(39):9027-36. PMID: 16192394.

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Nakamura K, Kurasawa M. Anxiolytic effects of aniracetam in three different mouse models of anxiety and the underlying mechanism. Eur J Pharmacol. 2001 May 18;420(1):33-43. PMID: 11412837.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.