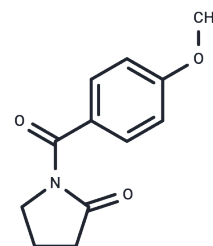


Aniracetam

Chemical Properties

CAS No. :	72432-10-1
Formula:	C ₁₂ H ₁₃ NO ₃
Molecular Weight:	219.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Aniracetam (Ro 13-5057)(Ro 13-5057), a nootropic and neuroprotective drug, selectively modulates the AMPA receptor and nAChR.
Targets(IC50)	5-HT Receptor, GluR, AChR, Dopamine Receptor, iGluR

Solubility Information

Solubility	Ethanol: 5.5 mg/mL (25.09 mM), Sonication is recommended. DMSO: 35 mg/mL (159.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.12 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5612 mL	22.8061 mL	45.6121 mL
5 mM	0.9122 mL	4.5612 mL	9.1224 mL
10 mM	0.4561 mL	2.2806 mL	4.5612 mL
50 mM	0.0912 mL	0.4561 mL	0.9122 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nakamura K, Kurasawa M. Eur J Pharmacol. 2001 May 18;420(1):33-43.

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