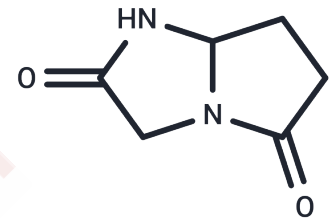


Dimiracetam

Chemical Properties

CAS No. :	126100-97-8
Formula:	C ₆ H ₈ N ₂ O ₂
Molecular Weight:	140.14
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	Dimiracetam (NT-11624) is an orally active anti-neuropathy compound that inhibits hypersensitivity and neurological alterations and may be used in the study of cognitive disorders, depression and neuropathic pain.
Targets(IC50)	Others, iGluR
In vivo	Male Sprague-Dawley rats were injected intraperitoneally (10 mg/kg sorafenib once daily for 21 days. On day 14, rats received an acute oral dose of dimiracetam (300 mg/kg (-1)), a single oral dose of which significantly increased pain threshold 15 minutes after administration. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1357 mL	35.6786 mL	71.3572 mL
5 mM	1.4271 mL	7.1357 mL	14.2714 mL
10 mM	0.7136 mL	3.5679 mL	7.1357 mL
50 mM	0.1427 mL	0.7136 mL	1.4271 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

Di Cesare Mannelli L, et al. A model of neuropathic pain induced by sorafenib in the rat: Effect of dimiracetam. Neurotoxicology. 2015 Sep;50:101-7.

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Farina C, et al. Synthesis and biological evaluation of novel dimiracetam derivatives useful for the treatment of neuropathic pain. Bioorg Med Chem. 2008 Mar 15;16(6):3224-32.

Torchio L, et al. Determination of the polar drug dimiracetam in human plasma and serum by column-switching high-performance liquid chromatography. J Chromatogr B Biomed Appl. 1995 Apr 7;666(1):169-77.

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