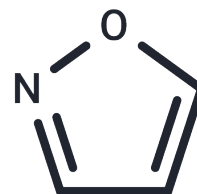


Isoxazole

Chemical Properties

CAS No. :	288-14-2
Formula:	C ₃ H ₃ NO
Molecular Weight:	69.06
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Isoxazole (1,2-oxazole) is the inhibitor of acetylcholinesterase (AChE). The ligands of Isoxazole bind to and inhibit the Sxc- antiporter.
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 50 mg/mL (724.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	14.4802 mL	72.4008 mL	144.8016 mL
5 mM	2.896 mL	14.4802 mL	28.9603 mL
10 mM	1.448 mL	7.2401 mL	14.4802 mL
50 mM	0.2896 mL	1.448 mL	2.896 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.

Reference

Gutiérrez M, et al. Isoxazoles: synthesis, evaluation and bioinformatic design as acetylcholinesterase inhibitors. The Journal of pharmacy and pharmacology 2013-11-5

Matti AA, et al. Microwave accelerated synthesis of isoxazole hydrazide inhibitors of the system xc- transporter: Initial homology model. Bioorg Med Chem Lett. 2013 Nov 1;23(21):5931-5. Matti AA1

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