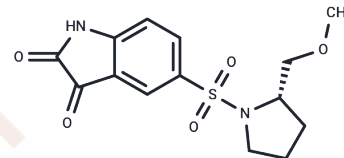


MMPSI

Chemical Properties

CAS No. :	220509-74-0
Formula:	C ₁₄ H ₁₆ N ₂ O ₅ S
Molecular Weight:	324.35
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	MMPSI (Caspase-3/7 Inhibitor I) is a novel, non-peptide small molecule caspase 3 and caspase 7 inhibitor that reduces ischemic injury in isolated rabbit heart or cardiomyocytes and inhibits apoptosis of H16c2 cells in a concentration-dependent manner. MMPSI can be used to study cardioprotection and myocardial injury.
Targets(IC50)	Apoptosis, Caspase

Solubility Information

Solubility	H ₂ O: 2 mg/mL (6.17 mM) DMSO: 145 mg/mL (447.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (30.83 mM), Solution. <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	3.0831 mL	15.4154 mL	30.8309 mL
5 mM	0.6166 mL	3.0831 mL	6.1662 mL
10 mM	0.3083 mL	1.5415 mL	3.0831 mL
50 mM	0.0617 mL	0.3083 mL	0.6166 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

Chapman JG, et al, Tracey WR. A novel nonpeptidic caspase-3/7 inhibitor, (S)-(+)-5-[1-(2-methoxymethylpyrrolidinyl)sulfonyl]isatin reduces myocardial ischemic injury. Eur J Pharmacol. 2002;456(1-3):59-68.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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