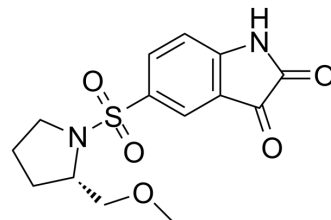


MMPSI

Cat. No.:	HY-103346		
CAS No.:	220509-74-0		
Molecular Formula:	C ₁₄ H ₁₆ N ₂ O ₅ S		
Molecular Weight:	324.35		
Target:	Caspase; Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (308.31 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MMPSI is a potent and selective small molecule caspase 3 and caspase 7 inhibitor with an IC₅₀ of 1.7 μM for human caspase-3. MMPSI can significantly reduce ischemia-reperfusion-induced infarct size in the isolated rabbit heart, and reduce apoptosis in both the ischemic myocardium and isolated cardiomyocytes. MMPSI can be used for researching cardioprotection^[1].

IC₅₀ & Target

human Caspase-3
1.7 μM (IC₅₀)

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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