Pralnacasan

Cat. No.:	HY-19676			
CAS No.:	192755-52-5			
Molecular Formula:	C ₂₆ H ₂₉ N ₅ O ₇			
Molecular Weight:	523.54			
Target:	Caspase			
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 : 220 mg/mL (420.22 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.9101 mL	9.5504 mL	19.1007 mL		
		5 mM	0.3820 mL	1.9101 mL	3.8201 mL		
		10 mM	0.1910 mL	0.9550 mL	1.9101 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5.5 mg/mL (10.51 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5.5 mg/mL (10.51 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5.5 mg/mL (10.51 mM); Clear solution						

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In Vivo	Pralnacasan (0 -50 mg/ Pralnacasan treatment MCE has not independe	Pralnacasan (0 -50 mg/kg; oral gavage; twice a day; for 6 weeks; female Balb/c mice) treatment reduces joint damage. Pralnacasan treatment does not appear to affect the weight of the animals ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female Balb/c mice induced with collagenase ^[1]		
	Dosage:	0 mg/kg, 12.5 mg/kg, 25 mg/kg and 50 mg/kg		
	Administration:	Oral gavage; twice a day; for 6 weeks		
	Result:	Significantly ameliorated the histopathological damage of the medial knee joint compartments.		

REFERENCES

[1]. Rudolphi K, et al. Pralnacasan, an inhibitor of interleukin-1beta converting enzyme, reduces joint damage in two murine models of osteoarthritis. Osteoarthritis Cartilage. 2003 Oct;11(10):738-46.

[2]. Loher F, et al. The interleukin-1 beta-converting enzyme inhibitor pralnacasan reduces dextran sulfate sodium-induced murine colitis and T helper 1 T-cell activation. J Pharmacol Exp Ther. 2004 Feb;308(2):583-90.

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

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