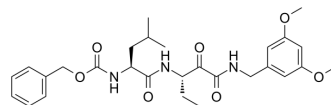


Calpain-2-IN-1

Cat. No.:	HY-145155		
CAS No.:	144231-85-6		
Molecular Formula:	C ₂₈ H ₃₇ N ₃ O ₇		
Molecular Weight:	527.61		
Target:	Proteasome		
Pathway:	Metabolic Enzyme/Protease		
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 (189.53 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	5 mM	10 mM
		1.8953 mL	9.4767 mL	18.9534 mL
		0.3791 mL	1.8953 mL	3.7907 mL
		0.1895 mL	0.9477 mL	1.8953 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: ≥ 2.5 mg/mL (4.74 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Calpain-2-IN-1 (Formula 1A) is a isoform-specific calpain-2 inhibitor with K _i s of 181 nM and 7.8 nM for calpain-1, and calpain-2, respectively. Calpain-2-IN-1 can be used for the research of neurodegenerative diseases and other diseases of synaptic function ^[1] .
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REFERENCES

[1]. Michel Baudry, et al. Isoform-specific calpain inhibitors, methods of identification, and uses thereof. WO2016077461A2.

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

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