

Calpain-2-IN-1

Chemical Properties

CAS No. : 144231-85-6

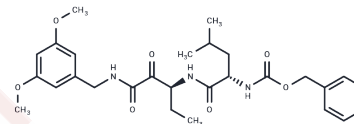
Formula: C₂₈H₃₇N₃O₇

Molecular Weight: 527.61

Store at low temperature

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	Calpain-2-IN-1 (Formula 1A) is a selective calpain-2 inhibitor with K_i values of 181 nM for calpain-1 and 7.8 nM for calpain-2, applicable for neurodegenerative diseases and other synaptic dysfunction disorders.
Targets(IC50)	Cysteine Protease

Solubility Information

Solubility	DMSO: 80 mg/mL (151.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.25 mM), Sonication is recommended. <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	1.8953 mL	9.4767 mL	18.9534 mL
5 mM	0.3791 mL	1.8953 mL	3.7907 mL
10 mM	0.1895 mL	0.9477 mL	1.8953 mL
50 mM	0.0379 mL	0.1895 mL	0.3791 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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