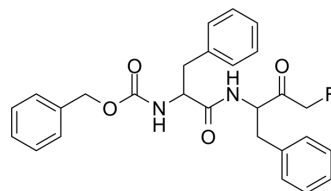


Cathepsin L-IN-2

Cat. No.:	HY-115733
CAS No.:	108005-94-3
Molecular Formula:	C ₂₇ H ₂₇ FN ₂ O ₄
Molecular Weight:	462.51
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 42.5 mg/mL (91.89 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		2.1621 mL	10.8106 mL	21.6212 mL
		5 mM		0.4324 mL	2.1621 mL	4.3242 mL
	10 mM		0.2162 mL	1.0811 mL	2.1621 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: ≥ 1.7 mg/mL (3.68 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.7 mg/mL (3.68 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.7 mg/mL (3.68 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cathepsin L-IN-2 (Z-Phe-Phe-FMK) is a potent and irreversible cathepsin L and cathepsin B inhibitor ^{[1][2]} .	
IC₅₀ & Target	Cathepsin B	cathepsin L

REFERENCES

[1]. Jonathan Frew, et al. Premature termination codon readthrough upregulates progranulin expression and improves lysosomal function in preclinical models of GRN

deficiency. Mol Neurodegener. 2020 Mar 16;15(1):21.

[2]. Kirsi Ravanko, et al. Cysteine cathepsins are central contributors of invasion by cultured adenosylmethionine decarboxylase-transformed rodent fibroblasts. Cancer Res. 2004 Dec 15;64(24):8831-8.

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

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