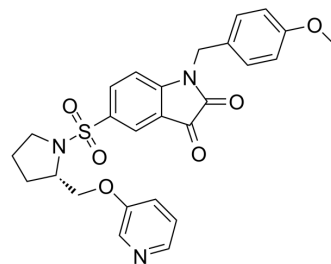


Caspase-3-IN-1

Cat. No.:	HY-136975
CAS No.:	872254-32-5
Molecular Formula:	C ₂₆ H ₂₅ N ₃ O ₆ S
Molecular Weight:	507.56
Target:	Caspase
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (197.02 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	1.9702 mL	9.8511 mL	19.7021 mL
		5 mM	0.3940 mL	1.9702 mL	3.9404 mL
10 mM	0.1970 mL	0.9851 mL	1.9702 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 (4.93 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Caspase-3-IN-1 (compound 11b) is a potent Caspase-3 inhibitor, with an IC ₅₀ of 14.5 nM ^[1] .			
IC ₅₀ & Target	Caspase-3 14.5 ± 1.6 nM (IC ₅₀)	Caspase-7 21.8 ± 3.5 nM (IC ₅₀)	Caspase-6 >5000 nM (IC ₅₀)	Caspase-1 >10000 nM (IC ₅₀)
	Caspase-8 >50000 nM (IC ₅₀)			

REFERENCES

[1]. Chu W, et al. N-benzylisatin sulfonamide analogues as potent caspase-3 inhibitors: synthesis, in vitro activity, and molecular modeling studies. J Med Chem. 2005 Dec 1;48(24):7637-47.

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

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