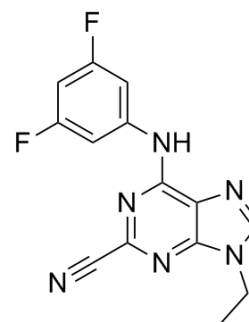


Cruzain-IN-1

Cat. No.:	HY-10836		
CAS No.:	1199523-24-4		
Molecular Formula:	C ₁₄ H ₁₀ F ₂ N ₆		
Molecular Weight:	300.27		
Target:	Others		
Pathway:	Others		
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 : 80 mg/mL (266.43 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3303 mL	16.6517 mL	33.3034 mL
	5 mM	0.6661 mL	3.3303 mL	6.6607 mL
	10 mM	0.3330 mL	1.6652 mL	3.3303 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: 2.67 mg/mL (8.89 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.67 mg/mL (8.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cruzain-IN-1 is a covalent and reversible **Cruzain** inhibitor, with an IC₅₀ of 10 nM.

IC₅₀ & Target

IC₅₀:10 nM (Cruzain)^[1].

REFERENCES

[1]. Lee GM, et al. Mapping inhibitor binding modes on an active cysteine protease via nuclear magnetic resonance spectroscopy. *Biochemistry*. 2012 Dec 18;51(50):10087-98.

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

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