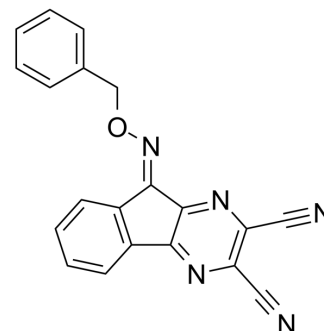


DUB-IN-1

Cat. No.:	HY-50736		
CAS No.:	924296-18-4		
Molecular Formula:	C ₂₀ H ₁₁ N ₅ O		
Molecular Weight:	337.33		
Target:	Deubiquitinase		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (296.45 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9645 mL	14.8223 mL	29.6446 mL
		5 mM	0.5929 mL	2.9645 mL	5.9289 mL
10 mM		0.2964 mL	1.4822 mL	2.9645 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 (7.41 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DUB-IN-1 is an active inhibitor of ubiquitin-specific proteases (USPs), with an IC ₅₀ of 0.85 μM for USP8 ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.24 μM (USP8) ^[1]
In Vitro	DUBS-IN-1 (22 d) is an active inhibitor of ubiquitin-specific proteases, with an IC ₅₀ of 0.85 μM for USP8. DUBS-IN-1 is inactive toward USP7 (IC ₅₀ , >100 μM). DUBS-IN-1 and its analogs reduce the viability of HCT116 colon and PC-3 prostate cancer cell lines with IC ₅₀ s ranging from 0.5 μM to 1.5 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Adv Res. 2022 Nov;41:1-12.
- Cell Chem Biol. 2021 Apr 27;S2451-9456(21)00213-0.
- J Med Chem. 2022 Oct 11.
- Cell Biol Toxicol. 2022 Jan 13.
- Harvard Medical School LINCS LIBRARY

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REFERENCES

[1]. Colombo M, et al. Synthesis and biological evaluation of 9-oxo-9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile analogues as potential inhibitors of deubiquitinating enzymes. ChemMedChem. 2010 Apr 6;5(4):552-8.

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

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