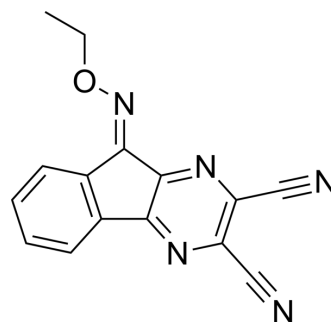


DUB-IN-2

Cat. No.:	HY-50737A		
CAS No.:	924296-19-5		
Molecular Formula:	C ₁₅ H ₉ N ₅ O		
Molecular Weight:	275		
Target:	Deubiquitinase		
Pathway:	Cell Cycle/DNA Damage		
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 : 16.67 mg/mL (60.62 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.6364 mL	18.1818 mL	36.3636 mL
	5 mM	0.7273 mL	3.6364 mL	7.2727 mL
	10 mM	0.3636 mL	1.8182 mL	3.6364 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 1.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1 mg/mL (3.64 mM); Suspended solution; Need ultrasonic 			

BIOLOGICAL ACTIVITY

Description	DUB-IN-2 is a potent deubiquitinase inhibitor with an IC ₅₀ of 0.28 μM for USP8 ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.28 μM (USP8) ^[1]
In Vitro	<p>DUBs-IN-2 (compound 22 e) is a potent USP8 inhibitor with an IC₅₀ of 0.28 μM, and has no effect on USP7, with an IC₅₀ of >100 μM. DUBs-IN-2 inhibits the viability of HCT116 colon cell line and PC-3 prostate cancer cell line with IC₅₀ values of 0.5-1.57 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Nat Commun. 2022 Mar 31;13(1):1700.
- Cell Death Differ. 2022 Dec 20.
- Cell Death Differ. 2020 Apr;27(4):1341-1354.
- J Adv Res. 1 February 2022.
- Cell Death Dis. 2022 Mar 31;13(3):286.

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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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA