DUB-IN-2

Cat. No.:	HY-50737A			
CAS No.:	924296-19-	5		
Molecular Formula:	$C_{15}H_{9}N_{5}O$			
Molecular Weight:	275.26			
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	

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SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	3.6329 mL	18.1646 mL	36.3293 mL		
		5 mM	0.7266 mL	3.6329 mL	7.2659 mL	
		10 mM	0.3633 mL	1.8165 mL	3.6329 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
ı Vivo		1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 1.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic				
	one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline nL (3.63 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 $^{[1]}$			
IC ₅₀ & Target	IC50: 0.28 μM (USP8) ^[1]			
In Vitro	DUBs-IN-2 (compound 22 e) is a potent USP8 inhibitor with an IC ₅₀ of 0.28 μM, and has no effect on USP7, with an IC ₅₀ of >100 μM. DUBs-IN-2 inhibits the viability of HCT116 colon cell line and PC-3 prostate cancer cell line with IC ₅₀ values of 0.5-1.5?μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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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.

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