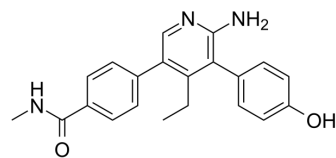


USP7-IN-8

Cat. No.:	HY-134817		
CAS No.:	2009273-60-1		
Molecular Formula:	C ₂₁ H ₂₁ N ₃ O ₂		
Molecular Weight:	347.41		
Target:	Deubiquitinase		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (239.86 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.8784 mL	14.3922 mL	28.7844 mL
		5 mM		0.5757 mL	2.8784 mL	5.7569 mL
	10 mM		0.2878 mL	1.4392 mL	2.8784 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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	USP7-IN-8 (example 81) is a selective ubiquitin-specific protease 7 (USP7) inhibitor with an IC ₅₀ of 1.4 μM in an Ub-Rho110 assay. USP7-IN-8 shows no activity against USP47 and USP5. USP7-IN-8 has anticancer effects ^[1] .
IC₅₀ & Target	IC ₅₀ : 1.4 μM (USP7)
In Vitro	USP7 or HAUSP (herpesvirus-associated USP) is a ubiquitin specific protease or a deubiquitylating enzyme that cleaves ubiquitin from its substrates. USP7 is a eubiquitinase (DUB) that controls cell proliferation by altering the stability of Mdm2, p53, PTEN and FOXO4 ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Robert Blake, et al. Usp7 inhibitor compounds and methods of use. US20160272588A1.

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

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