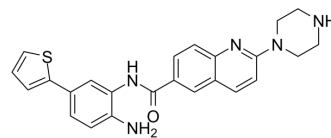


ACY-957

Cat. No.:	HY-104008		
CAS No.:	1609389-52-7		
Molecular Formula:	C ₂₄ H ₂₃ N ₅ OS		
Molecular Weight:	429.54		
Target:	HDAC		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
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 : 83.33 mg/mL (194.00 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.3281 mL	11.6404 mL	23.2807 mL
	5 mM	0.4656 mL	2.3281 mL	4.6561 mL
	10 mM	0.2328 mL	1.1640 mL	2.3281 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: ≥ 2.08 mg/mL (4.84 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	ACY-957 is an orally active and selective inhibitor of HDAC1 and HDAC2, with IC ₅₀ s of 7 nM, 18 nM, and 1300 nM against HDAC1/2/3, respectively, and shows no inhibition on HDAC4/5/6/7/8/9 ^[1] .		
IC ₅₀ & Target	HDAC1 7 nM (IC ₅₀)	HDAC2 18 nM (IC ₅₀)	HDAC3 1300 nM (IC ₅₀)
In Vitro	ACY-957 is a selective inhibitor of HDAC1 and HDAC2, with IC ₅₀ s of 7 nM, 18 nM, and 1300 nM against HDAC1/2/3,		

respectively, and shows no inhibition on HDAC4/5/6/7/8/9. ACY-957 has an IC₅₀ of 304 nM for HDAC2 in primary hematopoietic progenitors^[1].

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

CUSTOMER VALIDATION

- J Virol. 2020 Jul 1;94(14):e00262-20.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Shearstone JR, et al. Chemical Inhibition of Histone Deacetylases 1 and 2 Induces Fetal Hemoglobin through Activation of GATA2. PLoS One. 2016 Apr 13;11(4):e0153767.

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

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