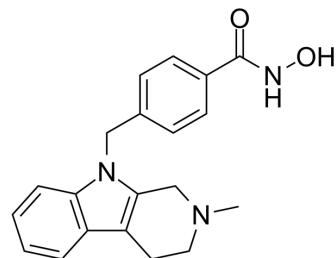


HDAC-IN-4

Cat. No.:	HY-128763		
CAS No.:	1252003-13-6		
Molecular Formula:	C ₂₀ H ₂₁ N ₃ O ₂		
Molecular Weight:	335.4		
Target:	HDAC		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
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 : 50 mg/mL (149.08 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.9815 mL	14.9076 mL	29.8151 mL
		5 mM		0.5963 mL	2.9815 mL	5.9630 mL
10 mM			0.2982 mL	1.4908 mL	2.9815 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: ≥ 2.5 mg/mL (7.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.45 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	HDAC-IN-4 is a selective HDAC6 and HDAC10 inhibitor with pIC ₅₀ s of 7.2 and 6.8 in BRET assay, respectively. Antitumoral activity ^[1] .
IC₅₀ & Target	pIC ₅₀ : 7.2 (HDAC6), and 6.8 (HDAC10) ^[1]
In Vitro	HDAC-IN-4 inhibits HDAC1, HDAC2, HDAC3, HDAC8 and HDAC10 with pIC ₅₀ s of 5.5, 4.6, 5.4, 5.4, 6.7 in FRET assay, respectively ^[1] .

HDAC-IN-4 is more potent against HDAC6 than Tubastatin A, suggests that HDAC-IN-4 may be a better HDAC6 probe than Tubastatin A^[1].

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

REFERENCES

[1]. Géraldy M, et al. Selective Inhibition of Histone Deacetylase 10: Hydrogen Bonding to the Gatekeeper Residue is Implicated. *J Med Chem.* 2019 May 9;62(9):4426-4443.

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

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