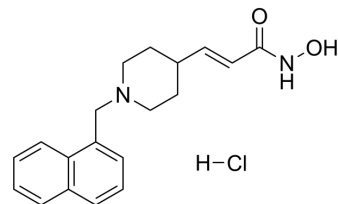


HDAC10-IN-2 hydrochloride

Cat. No.:	HY-144782A
Molecular Formula:	C ₁₉ H ₂₃ ClN ₂ O ₂
Molecular Weight:	346.85
Target:	HDAC; Autophagy
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Autophagy
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (288.31 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.8831 mL	14.4155 mL	28.8309 mL
		5 mM		0.5766 mL	2.8831 mL	5.7662 mL
		10 mM		0.2883 mL	1.4415 mL	2.8831 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: ≥ 2.5 mg/mL (7.21 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	HDAC10-IN-2 hydrochloride (compound 10c) is a potent and highly selective HDAC10 inhibitor, with an IC ₅₀ of 20 nM. HDAC10-IN-2 hydrochloride modulates autophagy in aggressive FLT3-ITD positive acute myeloid leukemia cells ^[1] .
IC₅₀ & Target	IC ₅₀ : 20 ± 2 nM (drHDAC10), 470 ± 70 nM (hHDAC8), 3700 ± 450 nM (hHDAC6) ^[1]

REFERENCES

[1]. Zeyen P, et al. Identification of histone deacetylase 10 (HDAC10) inhibitors that modulate autophagy in transformed cells. Eur J Med Chem. 2022 Apr 15;234:114272.

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