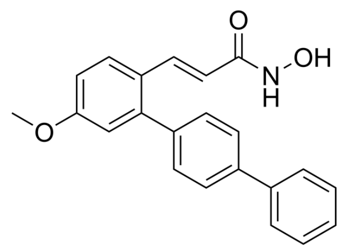
HDAC8-IN-1

Cat. No.:	HY-111342
CAS No.:	1417997-93-3
Molecular Formula:	$C_{22}H_{19}NO_3$
Molecular Weight:	345.39
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 : 50 mg/mL (144.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8953 mL	14.4764 mL	28.9528 mL
	5 mM	0.5791 mL	2.8953 mL	5.7906 mL
	10 mM	0.2895 mL	1.4476 mL	2.8953 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 (7.24 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HDAC8-IN-1 is a HDAC8 inhibitor with an IC_{50} of 27.2 nM.

IC_{50} & Target

HDAC8
27.2 nM (IC_{50})

In Vitro

HDAC8-IN-1 is a HDAC8 inhibitor with an IC_{50} of 27.2 nM in cancer cell lines. HDAC8-IN-1 (compound 22 d) shows antiproliferative effects toward several human lung cancer cell lines (A549, H1299, and CL1-5); HDAC8-IN-1 exhibits cytotoxicity against human lung CL1-5 cells without significant cytotoxicity for normal IMR-90 cells[1].

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

CUSTOMER VALIDATION

- Cell Death Dis. 2021 May 18;12(6):501.

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REFERENCES

[1]. Huang WJ, et al. Synthesis and biological evaluation of ortho-aryl N-hydroxycinnamides as potent histone deacetylase (HDAC) 8 isoform-selective inhibitors. ChemMedChem. 2012 Oct;7(10):1815-24.

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

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