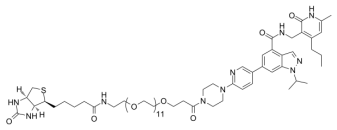
UNC2399

Cat. No.:	HY-136188
CAS No.:	2412791-72-9
Molecular Formula:	$C_{67}H_{104}N_{10}O_{17}S$
Molecular Weight:	1353.66
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (73.87 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7387 mL	3.6937 mL	7.3874 mL
	5 mM	0.1477 mL	0.7387 mL	1.4775 mL
	10 mM	0.0739 mL	0.3694 mL	0.7387 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 (1.85 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (1.85 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (1.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UNC2399, a biotinylated UNC1999, is a selective EZH2 inhibitor, maintaining high in vitro potency for EZH2, with an IC_{50} of 17 nM[1][2].

IC_{50} & Target

EZH2
17 nM (IC_{50})

In Vitro

UNC2399 (1-1000 nM) displays high in vitro potency (IC_{50}=17±2 nM) in the EZH2 radioactive biochemical assay[1].

UNC2399 (100 μM) enriches EZH2 from HEK293T cell lysates[1].

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

REFERENCES

[1]. Konze KD, et, al. An orally bioavailable chemical probe of the Lysine Methyltransferases EZH2 and EZH1. ACS Chem Biol. 2013; 8(6): 1324-34.

[2]. Ma A, et, al. Discovery of a first-in-class EZH2 selective degrader. Nat Chem Biol. 2020 Feb;16(2):214-222.

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