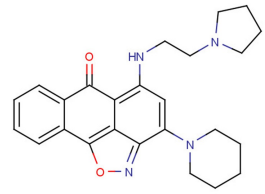
Data Sheet (Cat.No.T10882)

CPUY074020

Chemical Properties



CAS No.:	902279-44-1
Formula:	C25H28N4O2
Molecular Weight:	416.52
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CPUY074020 is a potent and orally bioavailable inhibitor of histone methyltransferase G9a (IC50: 2.18 μM) with anti-proliferative activity.
Targets(IC_{50})	G9a: 2.18 μM
In vitro	CPUY074020 (2.5-10μM ; 48 hours) dose-dependently de-regulates H3K9 trimethylation. CPUY074020 (2-8μM; 24 hours) induces cell death through apoptosis.
In vivo	CPUY074020 shows reasonable PK properties, with a T1/2 value of 4.0 hours and an oral bioavailability of 55.5% at an oral dose of 10 mg/kg.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.401 mL	12.004 mL	24.008 mL
5 mM	0.48 mL	2.401 mL	4.802 mL
10 mM	0.24 mL	1.2 mL	2.401 mL
50 mM	0.048 mL	0.24 mL	0.48 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chen WL, et al. Discovery, design and synthesis of 6H-anthra[1,9-cd]isoxazol-6-one scaffold as G9a inhibitor through a combination of shape-based virtual screening and structure-based molecular. Bioorg Med Chem. 2016 Nov 15;24(22):6102-6108.

Inhibitors · Natural Compounds · Compound Libraries

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481