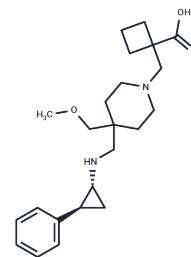


INCB059872

Chemical Properties

CAS No. : 1802909-49-4
 Formula: C₂₃H₃₄N₂O₃
 Molecular Weight: 386.536
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	INCB059872 is a highly potent, orally active, selective, and irreversible inhibitor of Lysine-Specific Demethylase 1 (LSD1). Its chemical properties make it suitable for use in researching myeloid leukemia.
Targets(IC50)	Histone Demethylase,Others
In vitro	INCB059872 (25 nM; 48 hours; 293T cells) upregulates enhancer activity and gene expression[1]. INCB059872 (25 nM; 24 hours; THP-1 cells) induces a growth defect in THP-1 cells within one doubling time (approximately 3 days). In MV-4-11 cells, INCB059872 (100 nM; 24 hours) does not impede growth similarly to DMSO-treated cells. INCB059872 (THP-1 cells) regulates genes and enhancers as identified by PRO-seq analysis[1]. Western Blot Analysis in 293T cells (250 nM; 48 hours) shows increased enhancer activity and gene expression.
In vivo	Administering INCB059872 (10 mg/kg; p.o.; 0, 4, or 6 days) in mice altered bone marrow progenitor populations, as identified by single-cell RNA sequencing[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5871 mL	12.9353 mL	25.8705 mL
5 mM	0.5174 mL	2.5871 mL	5.1741 mL
10 mM	0.2587 mL	1.2935 mL	2.5871 mL
50 mM	0.0517 mL	0.2587 mL	0.5174 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Johnston G, et al. Nascent transcript and single-cell RNA-seq analysis defines the mechanism of action of the LSD1 inhibitor INCB059872 in myeloid leukemia. Gene. 2020;752:144758.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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