INCB059872 dihydrochloride

Cat. No.:	HY-141677A	
Molecular Formula:	C ₂₃ H ₃₆ Cl ₂ N ₂ O ₃	
Molecular Weight:	459.45	
Target:	Histone Demethylase	
Pathway:	Epigenetics	\sim
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	N_

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Product Data Sheet

SOLVENT & SOLUBILITY

DMSO: 3.57 mg/mL (7.77 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.1765 mL	10.8826 mL	21.7652 m
	5 mM	0.4353 mL	2.1765 mL	4.3530 ml
	10 mM			

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV			
Description	INCB059872 dihydrochloride is a potent, orally active, selective and irreversible Lysine-Specific Demethylase 1 (LSD1) inhibitor. INCB059872 dihydrochloride can be used for the research of myeloid leukemia ^[1] .		
IC ₅₀ & Target	KDM1/LSD1		
In Vitro	INCB059872 (25 nM; 48 hours; 293T cells) dihydrochloride increases enhancer activity and gene expression ^[1] . INCB059872 (25 nM; 24 hours; THP-1 cells) dihydrochloride makes THP-1 show a growth defect within one cell doubling time or approximately 3 days ^[1] . INCB059872 (THP-1 cells) dihydrochloride regulates PRO-seq analysis identifies genes and enhancers ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]		
	Cell Line:	293T cells	
	Concentration:	250 nM	
	Incubation Time:	48 hours	



In Vitro

	Result:	Increased enhancer activity and gene expression.			
In Vivo	bone marrow progenite	INCB059872 (10 mg/kg; p.o.; 0, 4, or 6 days; C57BL/6J mice) dihydrochloride makes single-cell RNA-seq revealing changes in bone marrow progenitor populations ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	C57BL/6J mice ^[1]			
	Dosage:	10 mg/kg			
	Administration:	p.o.; 0, 4, or 6 days			
	Result:	Single-cell RNA-seq revealed changes in bone marrow progenitor populations.			

REFERENCES

[1]. 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.

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