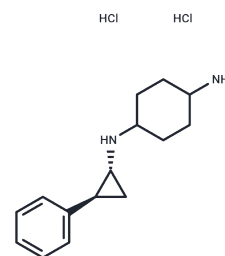


ORY1001

Chemical Properties

CAS No. : 1431326-61-2
 Formula: C₁₅H₂₂N₂·2HCl
 Molecular Weight: 303.27
 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	ORY1001 (ORY 1001) is an orally active and selective lysine-specific demethylase LSD1/KDM1A inhibitor, with high selectivity against related FAD dependent aminoxidases with IC ₅₀ of <20 nM.
Targets(IC ₅₀)	Histone Demethylase
In vitro	In THP-1 (MLL-AF9) cells, ORY-1001 results in a time/dose dependent me ₂ H ₃ K ₄ accumulation at KDM1A target genes and concomitant induction of differentiation markers. ORY-1001 also induces apoptosis in THP-1 and inhibits proliferation and colony formation of MV(4;11) (MLL-AF4) cells. [1]
In vivo	In rodent MV(4;11) xenografts, ORY-1001 (<0.020 mg/kg, p.o.) leads to significantly reduced tumor growth. [1]

Solubility Information

Solubility	DMSO: 7.81 mg/mL (25.75 mM),Sonication is recommended. Ethanol: 1 mg/mL (3.3 mM),Sonication is recommended. H ₂ O: 56 mg/mL (184.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2974 mL	16.487 mL	32.9739 mL
5 mM	0.6595 mL	3.2974 mL	6.5948 mL
10 mM	0.3297 mL	1.6487 mL	3.2974 mL
50 mM	0.0659 mL	0.3297 mL	0.6595 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

Maes T, et al. J Clin Oncol. 2013, 31, suppl; abstr. e13543.

Barbagallo C, Caltabiano R, Broggi G, et al. LncRNA LINC00518 Acts as an Oncogene in Uveal Melanoma by Regulating an RNA-Based Network. Cancers. 2020, 12(12): 3867

Lv S, Zhao X, Zhang E, et al. Lysine demethylase KDM1A promotes cell growth via FKBP8-BCL2 axis in hepatocellular carcinoma. Journal of Biological Chemistry. 2022: 102374.

Barbagallo C, Caltabiano R, Broggi G, et al. LncRNA LINC00518 Acts as an Oncogene in Uveal Melanoma by Regulating an RNA-Based Network[J]. Cancers. 2020, 12(12): 3867

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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