

Product Data Sheet

Product Name: ORY-1001(trans)

Cat. No.: GC36818

Chemical Properties

Cas. No. 1431303-72-8

SMILES N[C@@H]1CC[C@@H](N[C@H]2[C@H](C3=CC=CC=C3)C2)CC1.[H]Cl.[H]Cl

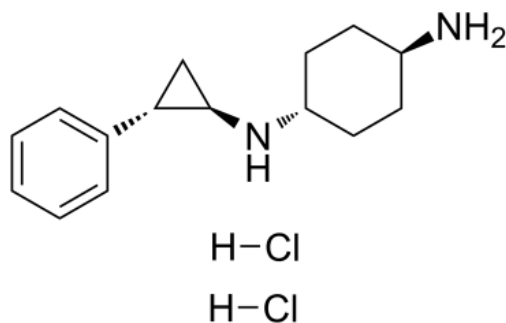
Formula $C_{15}H_{24}Cl_2N_2$ M.Wt 303.27

Solubility Water: 57.75 mg/mL (190.42 mM and warming); DMSO: 0.69 mg/mL (2.28 mM and warming) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

ORY-1001 trans is a selective irreversible lysine (K)-specific demethylase 1A (KDM1A/LSD1) inhibitor. KDM1A/LSD1[1]

ORY-1001 trans is a KDM1A inhibitor that inactivate KDM1A by irreversible binding to the flavin adenine nucleotide (FAD) cofactor. ORY-1001 trans has very high selectivity for KDM1A over the

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MAO enzymes, high selectivity over KDM1B and unrivaled subnanomolar cellular activity in differentiation and colony formation assays on mixed lineage leukemia (MLL)-translocated acute myeloid leukemia (AML) cell lines. ORY-1001 provokes a time and dose-dependent induction of the Cd11b differentiation marker in MLL-AF9 cells, which interestingly preceeds changes in H3K4me2 levels. While MLL-translocated cells are especially sensitive, other acute leukemia (AL) cell lines also respond to ORY-1001 trans[1].

ORY-1001 trans reduces AML tumor growth in mice and rat xenografts and increases survival time in a disseminated model of T-ALL[1].

[1]. Maes T, et al. KDM1 histone lysine demethylases as targets for treatments of oncological and neurodegenerative disease. *Epigenomics*. 2015;7(4):609-26. doi: 10.2217/epi.15.9.

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