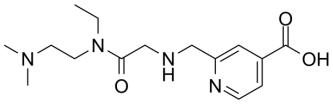
KDM5-C49

Cat. No.:	HY-119397
CAS No.:	1596348-16-1
Molecular Formula:	$C_{15}H_{24}N_4O_3$
Molecular Weight:	308.38
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KDM5-C49 (KDOAM-20) is a potent and selective inhibitor of KDM5 demethylases, with IC_{50}s of 40 nM, 160 nM, and 100 nM for KDM5A, KDM5B, and KDM5C enzymes, respectively. KDM5-C49 can be used for the research of cancer[1].
IC_{50} & Target	KDM5
In Vitro	KDM5-C49 display poor permeability. Convert the carboxylate group of KDM5-C49 into an ethyl ester, to get a cell-permeable prodrug (KDM5-C70)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Horton JR, et, al. Structural Basis for KDM5A Histone Lysine Demethylase Inhibition by Diverse Compounds. Cell Chem Biol. 2016 Jul 21;23(7):769-781.

[2]. Song YQ, et al. The role and prospect of lysine-specific demethylases in cancer chemoresistance. Med Res Rev. 2023 Apr 3.

[3]. Song YQ, et al. The role and prospect of lysine-specific demethylases in cancer chemoresistance. Med Res Rev. 2023 Apr 3.

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