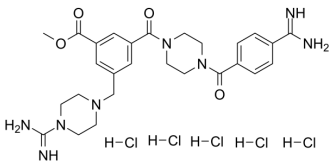
CBB1007 hydrochloride

Cat. No.:	HY-15313B
CAS No.:	2070014-96-7
Molecular Formula:	$C_{27}H_{39}Cl_5N_8O_4$
Molecular Weight:	716.91
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	CBB1007 Hcl is a cell-permeable amidino-guanidinium compound that acts as a potent, reversible and substrate competitive LSD1 selective inhibitor (IC50 = 5.27 μM for hLSD1).IC50 Value: 5.27 uMTarget: hLSD1CBB1007 efficiently can block LSD1-mediated demethylation of H3K4Me2 and H3K4Me (IC50 ≤ 5 μM) with no effect on H3K4Me3 and H3K9Me2, and LSD2 and JARID1A activities. Increases H3K4Me2 and H3K4Me contents (IC50 ≤ 5 μM), and causes activation of epigenetically suppressed CHRM4/M4-ArchR and SCN3A genes in F9 cells (IC50 ≤ 3.74 μM). CBB1007 was Shown to preferentially arrest the growth of pluripotent tumors with minimal effect on non-pluripotent cancer or normal somatic cells (IC50 ≥ 100 μM).
IC_{50} & Target	KDM1/LSD1

CUSTOMER VALIDATION

- BMC Neurosci. 2022 Nov 10;23(1):63.

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REFERENCES

[1]. Wang J, et al. Novel histone demethylase LSD1 inhibitors selectively target cancer cells with pluripotent stem cell properties. Cancer Res. 2011 Dec 1;71(23):7238-49.

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