

## CBB1007 hydrochloride

## Chemical Properties

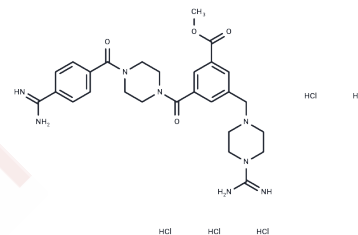
CAS No. : 2070014-96-7

Formula: C<sub>27</sub>H<sub>39</sub>Cl<sub>5</sub>N<sub>8</sub>O<sub>4</sub>

Molecular Weight: 716.91

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	CBB1007 HCl is a cell-permeable amidino-guanidinium compound identified as a potent, reversible, and substrate-competitive inhibitor of LSD1 (IC <sub>50</sub> = 5.27 μM for hLSD1). It effectively inhibits LSD1-mediated demethylation of H3K4Me <sub>2</sub> and H3K4Me (IC <sub>50</sub> ≤ 5 μM), without affecting H3K4Me <sub>3</sub> and H3K9Me <sub>2</sub> demethylation, nor the activities of LSD2 and JARID1A. Moreover, CBB1007 increases the levels of H3K4Me <sub>2</sub> and H3K4Me (IC <sub>50</sub> ≤ 5 μM) and activates epigenetically suppressed genes CHRM4/M4-ArchR and SCN3A in F9 cells (IC <sub>50</sub> ≤ 3.74 μM). It preferentially inhibits the growth of pluripotent tumors with minimal impact on non-pluripotent cancer or normal somatic cells (IC <sub>50</sub> ≥ 100 μM).
Targets(IC <sub>50</sub> )	Histone Demethylase,Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3949 mL	6.9744 mL	13.9488 mL
5 mM	0.279 mL	1.3949 mL	2.7898 mL
10 mM	0.1395 mL	0.6974 mL	1.3949 mL
50 mM	0.0279 mL	0.1395 mL	0.279 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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