

## CBB1007 trihydrochloride

### Chemical Properties

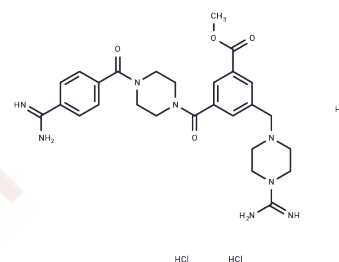
CAS No. :

Formula: C<sub>27</sub>H<sub>37</sub>Cl<sub>3</sub>N<sub>8</sub>O<sub>4</sub>

Molecular Weight: 643.99

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	<p>CBB1007 trihydrochloride is a cell-permeable amidino-guanidinium compound that acts as a potent, reversible and substrate competitive LSD1 selective inhibitor (IC<sub>50</sub> = 5.27 μM for hLSD1).</p> <p>IC<sub>50</sub> Value: 5.27 uM</p> <p>Target: hLSD1</p> <p>CBB1007 efficiently can block LSD1-mediated demethylation of H3K4Me<sub>2</sub> and H3K4Me (IC<sub>50</sub> ≤ 5 μM) with no effect on H3K4Me<sub>3</sub> and H3K9Me<sub>2</sub>, and LSD2 and JARID1A activities. Increases H3K4Me<sub>2</sub> and H3K4Me contents (IC<sub>50</sub> ≤ 5 μM), and causes activation of epigenetically suppressed CHRM4/M4-ArchR and SCN3A genes in F9 cells (IC<sub>50</sub> ≤ 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 (IC<sub>50</sub> ≥ 100 μM).</p>
Targets(IC <sub>50</sub> )	Others

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5528 mL	7.7641 mL	15.5282 mL
5 mM	0.3106 mL	1.5528 mL	3.1056 mL
10 mM	0.1553 mL	0.7764 mL	1.5528 mL
50 mM	0.0311 mL	0.1553 mL	0.3106 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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