

# CBB1007

**Catalog No: tcsc1737**



## Available Sizes

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**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

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**CAS No:**

1379573-92-8

**Formula:**

$C_{27}H_{34}N_8O_4$

**Pathway:**

Epigenetics

**Target:**

Histone Demethylase

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

534.61

## Product Description

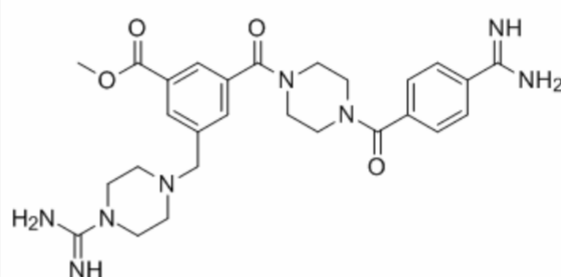
CBB1007 is a cell-permeable amidino-guanidinium compound that acts as a potent, reversible and substrate competitive LSD1

selective inhibitor (IC<sub>50</sub> = 5.27 μM for hLSD1).

IC<sub>50</sub> Value: 5.27 μM

Target: hLSD1

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).



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!