

CBB1007 (hydrochloride)

Catalog No: tcsc3827



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

Formula:

$C_{27}H_{39}Cl_5N_8O_4$

Pathway:

Epigenetics

Target:

Histone Demethylase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

716.91

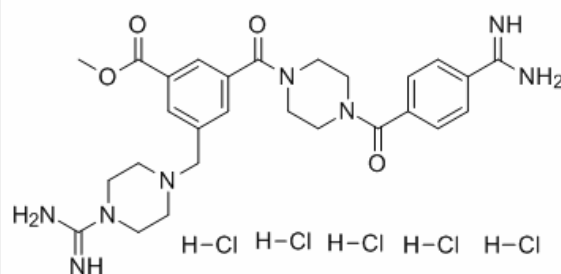
Product Description

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 uM

Target: hLSD1

CBB1007 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).



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