Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

CBB1007

Catalog No: tcsc1737

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

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

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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).