

Product Data Sheet

Product Name: CBB1007 hydrochloride

Cat. No.: GC35623

Chemical Properties

Cas. No. 2070014-96-7

SMILES [H]Cl.[H]Cl.[H]Cl.[H]Cl.[H]Cl.NC(N1CCN(CC1)CC2=CC(C(OC)=O)=CC(C(N3CCN(CC3)C(C4=CC=C(C=C4)C(N)=N)=O)=O)=C2)=N

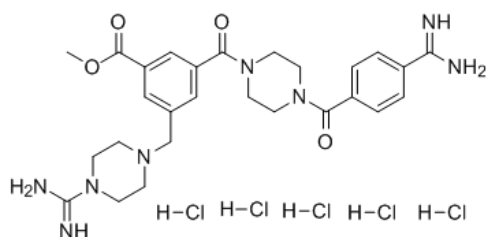
Formula $C_{27}H_{39}Cl_5N_8O_4$ M.Wt 716.91

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CBB1007 HCl is a cell-permeable amidino-guanidinium compound that acts as a potent, reversible and substrate competitive LSD1 selective inhibitor ($IC_{50} = 5.27 \mu M$ for hLSD1). IC_{50} Value: 5.27 μM . Target: hLSD1. CBB1007 efficiently can block LSD1-mediated demethylation of H3K4Me2 and H3K4Me ($IC_{50} \leq 5 \mu M$) with no effect on H3K4Me3 and H3K9Me2, and LSD2 and JARID1A activities. Increases H3K4Me2 and H3K4Me contents ($IC_{50} \leq 5 \mu M$), and causes activation of epigenetically suppressed CHRM4/M4-ArchR and SCN3A genes in F9 cells ($IC_{50} \leq 3.74 \mu M$).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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CBB1007 was Shown to preferentially arrest the growth of pluripotent tumors with minimal effect on non-pluripotent cancer or normal somatic cells ($IC_{50} \geq 100 \mu M$).

[1]. Wang J, et al. Novel histone demethylase LSD1 inhibitors selectively target cancer cells with pluripotent stem cell properties. Cancer Res. 2011 Dec 1;71(23):7238-49.

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