
Product Data Sheet

Product Name: CBB1003

Cat. No.: GC35621

Chemical Properties

Cas. No. 1379573-88-2

SMILES NC(N1CCN(CC2=CC(C(N3CCN(C(C4=CC=C(C(N)=N)C=C4)=O)CC3)=O)=CC([N+][O-])=O)=C2)CC1)=NFormula C₂₅H₃₁N₉O₄ M.Wt 521.57

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**

CBB1003 is a novel histone demethylase LSD1 inhibitor with IC₅₀ of 10.54 uM. IC₅₀ value: 10.54 uM [1] Target: LSD1 inhibitor in vitro: Treatment of F9 cells with CBB1003 led to the activation of CHRM4 and SCN3A expression. Treatment of CBB1003 led to significant growth inhibition of mouse embryonic teratocarcinoma F9 cells. Treatment of mouse ES cells with CBB1003 and 1007 also led to substantial inhibition of the spherical growth of ES cells [1]. CBB1003 inhibited CRC cell proliferation and colony formation. In cultured CRC cells, inhibiting LSD1 activity by CBB1003 caused a decrease in LGR5 levels while overexpression of LGR5 reduced CBB1003-induced cell death [2].

[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. [2]. Hsu HC, et al. CBB1003, a lysine-specific demethylase 1 inhibitor, suppresses colorectal cancer cells growth through down-regulation of leucine-rich repeat-containing G-protein-coupled receptor 5 expression. *J Cancer Res Clin Oncol.* 2014 Jul 25.

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

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