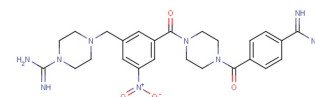


CBB1003

Chemical Properties

CAS No.: 1379573-88-2
Formula: C₂₅H₃₁N₉O₄
Molecular Weight: 521.57
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	CBB1003 is a new inhibitor of histone demethylase LSD1 (IC ₅₀ : 10.54 μM).
Targets(IC ₅₀)	Others: None
In vitro	In mouse embryonic teratocarcinoma F9 cells, treatment of CBB1003 led to significant growth inhibition and the activation of CHRM4 and SCN3A expression. Treatment of mouse ES cells with CBB1003 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].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.917 mL	9.586 mL	19.173 mL
5 mM	0.383 mL	1.917 mL	3.835 mL
10 mM	0.192 mL	0.959 mL	1.917 mL
50 mM	0.038 mL	0.192 mL	0.383 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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