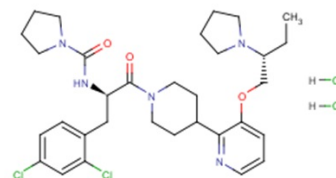


SNT-207858

Chemical Properties

CAS No.: 1104080-42-3
Formula: C₃₂H₄₅Cl₄N₅O₃
Molecular Weight: 689.54
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	SNT-207858 is a selective, blood brain barrier penetrating, potent and orally active antagonist of melanocortin-4 (MC-4) receptor. SNT207858 has an IC ₅₀ of 22 nM (binding) and 11 nM (function) on the MC-4 receptor.
Targets(IC ₅₀)	binding, MC-4 receptor: 22 nM function, MC-4 receptor: 11 nM
In vitro	SNT207858 binds to the MC-4 receptor with an affinity of 22 nM, and shows a 170-fold selectivity vs. MC-3 and a 40-fold selectivity vs. MC-5.
In vivo	In mice, the tumor induced weight loss significantly reduced by SNT207858 (30 mg/kg; oral administration; once daily; 15 days).

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	1.45 mL	7.251 mL	14.502 mL
5 mM	0.29 mL	1.45 mL	2.9 mL
10 mM	0.145 mL	0.725 mL	1.45 mL
50 mM	0.029 mL	0.145 mL	0.29 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. Weyermann P, et al. Orally available selective melanocortin-4 receptor antagonists stimulate food intake and reduce cancer-induced cachexia in mice. PLoS One. 2009;4(3):e4774.

Inhibitors · Natural Compounds · Compound Libraries

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