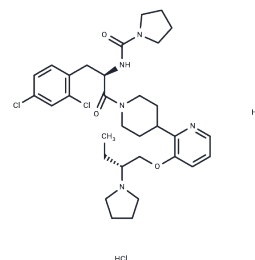


SNT-207858

Chemical Properties

CAS No. : 1104080-42-3
 Formula: C₃₂H₄₅Cl₄N₅O₃
 Molecular Weight: 689.54
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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)	Others
In vitro	SNT207858 demonstrates binding to the MC-4 receptor at an affinity of 22 nM, exhibiting significant specificity with a 170-fold greater selectivity when compared to MC-3, and a 40-fold increased selectivity relative to MC-5.
In vivo	In mice, the tumor induced weight loss significantly reduced by SNT207858 (30 mg/kg; oral administration; once daily; 15 days).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4502 mL	7.2512 mL	14.5024 mL
5 mM	0.290 mL	1.4502 mL	2.9005 mL
10 mM	0.145 mL	0.7251 mL	1.4502 mL
50 mM	0.029 mL	0.145 mL	0.290 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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