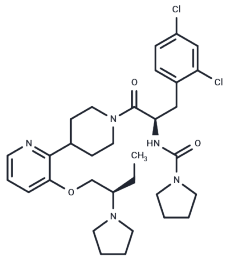
Data Sheet (Cat.No.T12945)

TargetMol

SNT-207858 free base

Chemical Properties



CAS No. : 1104662-66-9

Formula: C32H43Cl2N5O3

Molecular Weight: 616.62

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SNT-207858 free base is a selective, blood brain barrier penetrating, potent and orally active antagonist of melanocortin-4 (MC-4) receptor(IC50 of 22 nM (binding) and 11 nM (function), on the MC-4 receptor).
Targets(IC50)	Others,Melanocortin Receptor
In vitro	SNT207858 exhibits binding affinity to the MC-4 receptor at 22 nM, demonstrating significant selectivity with a 170-fold preference compared to MC-3 and a 40-fold preference over 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	DMSO: 125 mg/mL (202.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.35 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6217 mL	8.1087 mL	16.2174 mL
5 mM	0.3243 mL	1.6217 mL	3.2435 mL
10 mM	0.1622 mL	0.8109 mL	1.6217 mL
50 mM	0.0324 mL	0.1622 mL	0.3243 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.