

SNT-207707

Chemical Properties

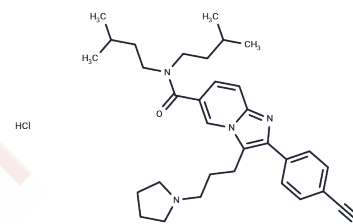
CAS No. : 1064662-40-3

Formula: C₃₂H₄₄ClN₅O

Molecular Weight: 550.18

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-207707 is a potent, selective and orally active antagonist of melanocortin MC-4 receptor (IC ₅₀ of 8 nM (binding) and 5 nM (function) on the MC-4 receptor).
Targets(IC ₅₀)	Others, Melanocortin Receptor
In vitro	SNT-207707 binds to MC-4 receptor with an affinity of 8 nM, and has over 200-fold selectivity vs. MC-3 and MC-5. SNT207858 is a 22 nM MC-4 antagonist with a 170-fold selectivity vs. MC-3 and a 40-fold selectivity versus MC-5.
In vivo	food intake of the mice distinctly increased by SNT-207707 (Single subcutaneous injection of 20 mg/kg). Once daily oral administration of both compounds SNT207858 and SNT-207707 starting the day after tumor implantation significantly reduces the tumor induced weight loss.

Solubility Information

Solubility	DMSO: 250 mg/mL (454.4 mM), Sonication is recommended. MEthanol: 250 mg/mL (454.4 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 (6 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8176 mL	9.0879 mL	18.1759 mL
5 mM	0.3635 mL	1.8176 mL	3.6352 mL
10 mM	0.1818 mL	0.9088 mL	1.8176 mL
50 mM	0.0364 mL	0.1818 mL	0.3635 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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