

SNT-207707

Chemical Properties

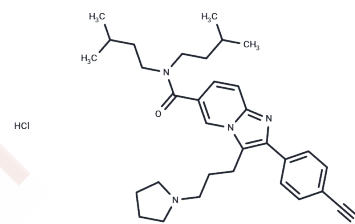
CAS No. : 1064662-40-3

Formula: C32H44ClN5O

Molecular Weight: 550.18

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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
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 (454.40 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481