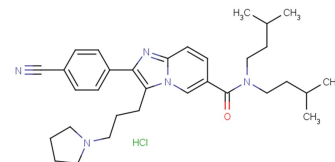


SNT-207707

Chemical Properties

CAS No.: 1064662-40-3
 Formula: C₃₂H₄₄ClN₅O
 Molecular Weight: 550.18
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



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)	binding MC-4: 8 nM function MC-4: 5 nM
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 (454.40 mM) MEthanol: 250 mg/mL (454.40 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.818 mL	9.088 mL	18.176 mL
5 mM	0.364 mL	1.818 mL	3.635 mL
10 mM	0.182 mL	0.909 mL	1.818 mL
50 mM	0.036 mL	0.182 mL	0.364 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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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481