SNT-207858 free base

Cat. No.: HY-11030A

CAS No.: 1104662-66-9

Molecular Formula: $C_{32}H_{43}Cl_2N_5O_3$

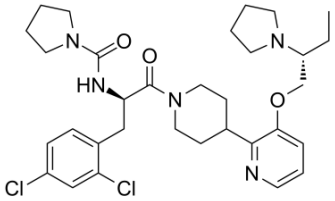
Molecular Weight: 616.62

Target: Melanocortin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (202.72 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.37 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SNT207858 free base is a selective, blood brain barrier penetrating, potent and orally active melanocortin-4 (MC-4) receptor antagonist. SNT207858 free base has an IC_{50} of 22 nM (binding) and 11 nM (function) on the MC-4 receptor[1].

IC_{50} & Target

MC-4 receptor[1]

In Vitro

SNT207858 binds to the MC-4 receptor with an affinity of 22 nM and shows a 170-fold selectivity vs. MC-3 and a 40-fold selectivity vs. MC-5[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

SNT207858 (30 mg/kg; oral administration; once daily; 15 days) significantly reduces the tumor induced weight loss in mice

[1].

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Animal Model:	Mice with C26 adenocarcinoma-induced cachexia model[1]
Dosage:	30 mg/kg
Administration:	Oral administration; once daily; 15 days
Result:	Significantly reduced the tumor induced weight loss.

REFERENCES

[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.

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