

Product Data Sheet

SNT-207858

Molecular Weight:

Cat. No.: HY-11030
CAS No.: 1104080-42-3

 $\begin{tabular}{ll} \textbf{Molecular Formula:} & C_{32}H_{45}Cl_4N_5O_3 \\ \end{tabular}$

Target: Melanocortin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

689.54

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

H-CI H-CI

BIOLOGICAL ACTIVITY

Description	SNT207858 is a selective, blood brain barrier penetrating, potent and orally active melanocortin-4 (MC-4) receptor antagonist. SNT207858 has an IC $_{50}$ of 22 nM (binding) and 11 nM (function) on the MC-4 receptor ^[1] .	
IC ₅₀ & Target	IC50: 22 nM (binding, MC-4 receptor), 11 nM (function, 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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 1 www.MedChemExpress.com