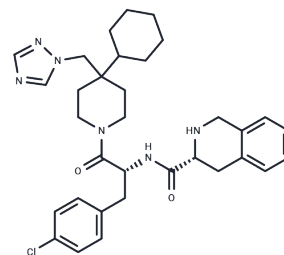


THIQ

Chemical Properties

CAS No. : 312637-48-2
 Formula: C₃₃H₄₁ClN₆O₂
 Molecular Weight: 589.17
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	THIQ is a selective melanocortin-4 receptor (MC4R) agonist (hMC4R and rMC4R with IC ₅₀ of 1.2 nM and 0.6 nM , respectively).
Targets(IC ₅₀)	Melanocortin Receptor
In vitro	THIQ, a small molecule agonist of the MC4R, on the cell surface expression and signaling of ten intracellularly retained MC4R mutants using different cell lines. THIQ increased the cell surface expression of three mutants (N62S, C84R, and C271Y) and two of them (N62S and C84R) had increased signaling in HEK293 cells. THIQ increased the signaling of two other mutants (P78L and P260Q) without increasing their cell surface expression in HEK293 cells. In neuronal cells, THIQ exhibited a more potent effect, correcting the cell surface expression and signaling of seven mutants (N62S, I69R, P78L, C84R, W174C, P260Q, and C271Y).

Solubility Information

Solubility	DMSO: 245 mg/mL(415.84 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	1.6973 mL	8.4865 mL	16.973 mL
5 mM	0.3395 mL	1.6973 mL	3.3946 mL
10 mM	0.1697 mL	0.8487 mL	1.6973 mL
50 mM	0.0339 mL	0.1697 mL	0.3395 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

Zhang, Yan, et al. Structural insights into ligand recognition and activation of the melanocortin-4 receptor. Cell Research. 2021, 31(11): 1163-1175.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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