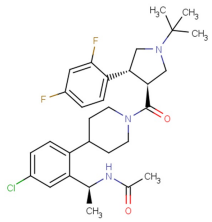
Data Sheet (Cat.No.T16086)

TargetMol
A DRUG SCREENING EXPERT

MK-0493

Chemical Properties



CAS No.:	455956-93-1
Formula:	C30H38ClF2N3O2
Molecular Weight:	546.09
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	MK-0493 is an effective and selective agonist of the melanocortin receptor 4 (MC4R). It also demonstrated significant reductions in energy intake.
Targets(IC_{50})	Others: None
In vivo	MK-0493 is shown to promote robust weight loss activity following oral administration in preclinical animal models. That suggesting the drug can access the target site in the hypothalamus. MK-0493 dose-dependently enhances electrically evoked increases in ICP [2][3].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.831 mL	9.156 mL	18.312 mL
5 mM	0.366 mL	1.831 mL	3.662 mL
10 mM	0.183 mL	0.916 mL	1.831 mL
50 mM	0.037 mL	0.183 mL	0.366 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Krishna R, etal. Potent and selective agonism of the melanocortin receptor 4 with MK-0493 does not induce weight loss in obese human subjects: energy intake predicts lack of weight loss efficacy. Clin Pharmacol Ther. 2009 Dec;86(6):659-66.
2. Sezen SF, et al. Intracavernosal pressure monitoring in mice: responses to electrical stimulation of the cavernous nerve and to intracavernosal drug administration. J Androl. 2000 Mar-Apr;21(2):311-5.
3. Hong Q, et al. Discovery of a piperazine urea based compound as a potent, selective, orally bioavailable melanocortin subtype-4 receptor partial agonist. Bioorg Med Chem Lett. 2011 Apr 15;21(8):2330-4.

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