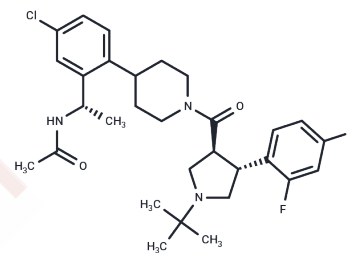


MK-0493

Chemical Properties

CAS No. : 455956-93-1
 Formula: C₃₀H₃₈ClF₂N₃O₂
 Molecular Weight: 546.09
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



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(IC50)	Others, Melanocortin Receptor
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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8312 mL	9.156 mL	18.312 mL
5 mM	0.3662 mL	1.8312 mL	3.6624 mL
10 mM	0.1831 mL	0.9156 mL	1.8312 mL
50 mM	0.0366 mL	0.1831 mL	0.3662 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Krishna R, et al. 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.

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.

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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