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## Product Data Sheet

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Product Name: MK-0493  
Cat. No.: GC64427

### Chemical Properties

Cas. No. 455956-93-1

Formula C<sub>30</sub>H<sub>38</sub>ClF<sub>2</sub>N<sub>3</sub>O<sub>2</sub>

M.Wt 546.09

Solubility DMSO : 100 mg/mL (183.12 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

MK-0493 is a potent, orally active and selective agonist of the melanocortin receptor 4 (MC4R), demonstrating significant reductions in energy intake[1].

MK-0493 dose-dependently increases electrically evoked increases in ICP[2]. MK-0493 is shown to promote robust weight loss activity following oral administration in preclinical animal models, suggesting the drug can access the target site in the hypothalamus[3].

[1]. 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.

[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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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