

MK-0249

Chemical Properties

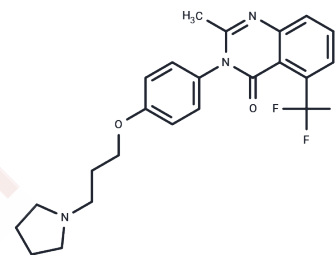
CAS No. : 862309-06-6

Formula: C₂₃H₂₄F₃N₃O₂

Molecular Weight: 431.45

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-0249 is an orally active, selective and potent histamine H ₃ receptor antagonist (IC ₅₀ : 1.7 nM) for the study of attention-deficit and hyperactivity disorders.
Targets(IC ₅₀)	Histamine Receptor
In vivo	MK-0249 (10 mg/kg; p.o.; once) shows markedly higher brain penetrability and a lower plasma Occ90 value in mdr1a (-/-) mice than in mdr1a (+/+) mice; MK-0249 (0-30 mg/kg; p.o.; once) elevates histamine levels in the rat brain in a dose-dependent manner[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3178 mL	11.5888 mL	23.1777 mL
5 mM	0.4636 mL	2.3178 mL	4.6355 mL
10 mM	0.2318 mL	1.1589 mL	2.3178 mL
50 mM	0.0464 mL	0.2318 mL	0.4636 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

Brioni JD, et al. Discovery of histamine H₃ antagonists for the treatment of cognitive disorders and Alzheimer's disease. J Pharmacol Exp Ther. 2011 Jan;336(1):38-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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