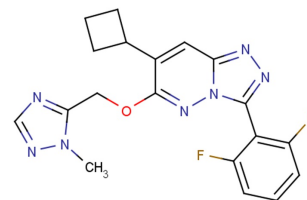


MK-0343

Chemical Properties

CAS No.:	233275-76-8
Formula:	C ₁₉ H ₁₇ F ₂ N ₇ O
Molecular Weight:	397.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	MK0343 is an orally bioavailable GABAA receptor subtype-selective partial agonist and is a non-sedating anxiolytic.
Targets(IC ₅₀)	rGABAA α1: (ki)0.22 nM rGABAAα2: 0.4 nM(ki) rGABAAα3: 0.21 nM(ki) rGABAAα4: 78 nM(ki) rGABAAα5: 0.23 nM(ki) rGABAAα6: 980 nM(ki)
In vivo	MK0343 readily penetrates the brain in rats and occupies the benzodiazepine site of GABAA receptors, measured using an in vivo [3H]flumazenil binding assay. It has an Occ50 of 2.2 mg/kg p.o. and a corresponding plasma EC50 of 115 ng/mL .

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.516 mL	12.582 mL	25.165 mL
5 mM	0.503 mL	2.516 mL	5.033 mL
10 mM	0.252 mL	1.258 mL	2.516 mL
50 mM	0.05 mL	0.252 mL	0.503 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Atack JR, et al. MRK-409 (MK-0343), a GABAA receptor subtype-selective partial agonist, is a non-sedating anxiolytic in preclinical species but causes sedation in humans. J Psychopharmacol. 2011 Mar;25(3):314-28.

Inhibitors · Natural Compounds · Compound Libraries

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