MK-0343

Cat. No.:	HY-101869		
CAS No.:	233275-76-8	8	
Molecular Formula:	C ₁₉ H ₁₇ F ₂ N ₇ C)	
Molecular Weight:	397.38		
Target:	GABA Rece	otor	
Pathway:	Membrane	Transpor	ter/Ion Channel; Neuronal Signaling
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

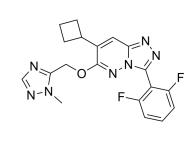
SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5165 mL	12.5824 mL	25.1648 mL	
	5 mM	0.5033 mL	2.5165 mL	5.0330 mL	
		10 mM	0.2516 mL	1.2582 mL	2.5165 mL

BIOLOGICAL ACTIV	ТТҮ	
Description	MK0343 (MRK-409) is an anxiolytic ^[1] .	n orally bioavailable GABA _A receptor subtype-selective partial agonist. MK0343 is a non-sedating
IC ₅₀ & Target	Ki: 0.22 nM (rGABA _A α1), [1]	, 0.4 nM (rGABA _A α2) , 0.21 nM (rGABA _A α3), 78 nM (rGABA _A α4), 0.23 nM (rGABA _A α5), 980 nM (rGABA _A α6)
In Vivo	vivo [³ H]flumazenil bino	ites the brain in rats and occupies the benzodiazepine site of GABAA receptors, measured using an in ding assay, with an Occ ₅₀ of 2.2 mg/kg p.o. and a corresponding plasma EC ₅₀ of 115 ng/mL ^[1] . In the accuracy of these methods. They are for reference only.
	Animal Model:	Male Sprague-Dawley rats (approximately 250–300g) (pharmacokinetics) $^{[1]}$
	Dosage:	1, 2 or 3 mg/kg
	Administration:	Oral administration

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Product Data Sheet

Result:	Readily penetrated the brain in rats and occupies the benzodiazepine site of GABAA
	receptors, with an Occ_{50} of 2.2 mg/kg p.o. and a corresponding plasma EC ₅₀ of 115 ng/ml

REFERENCES

[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.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA