Data Sheet (Cat.No.T21466)

MK-212

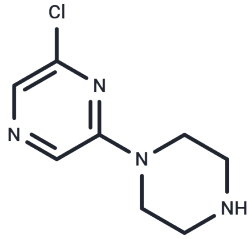
Chemical Properties

CAS No. : 64022-27-1

Formula: C8H11ClN4

Molecular Weight: 198.65

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-212 is a selective 5-HT1C/5-HT2 agonist that regulates neurotransmitter release by activating central serotonin receptors, commonly used to study appetite control, mood, and neuropsychiatric-related behaviors. MK-212 is widely used in animal models to investigate 5-HT2C receptor-mediated neuropharmacological effects.
Targets(IC50)	Others,5-HT Receptor

Solubility Information

Solubility	DMSO: Soluble, H2O: < 1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.034 mL	25.1699 mL	50.3398 mL
5 mM	1.0068 mL	5.034 mL	10.068 mL
10 mM	0.5034 mL	2.517 mL	5.034 mL
50 mM	0.1007 mL	0.5034 mL	1.0068 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

Lee HS, et, al. Effect of the serotonin agonist, MK-212, on body temperature in schizophrenia. Biol Psychiatry. 1992 Mar 1;31(5):460-70.

Conn PJ, et, al. Relative efficacies of piperazines at the phosphoinositide hydrolysis-linked serotonergic (5-HT-2 and 5-HT-1c) receptors. J Pharmacol Exp Ther. 1987 Aug;242(2):552-7.

de Mello Cruz AP, Pinheiro G, Alves SH, Ferreira G, Mendes M, Faria L, Macedo CE, Motta V, Landeira-Fernandez J. Behavioral effects of systemically administered MK-212 are prevented by ritanserin microinfusion into the basolateral amygdala of rats exposed to the elevated plus-maze. Psychopharmacology (Berl). 2005 Nov;182(3): 345-54. Epub 2005 Oct 19. PubMed PMID: 16133141.

Halford JC, Lawton CL, Blundell JE. The 5-HT2 receptor agonist MK-212 reduces food intake and increases resting but prevents the behavioural satiety sequence. Pharmacol Biochem Behav. 1997 Jan;56(1):41-6. PubMed PMID: 8981607.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481