

MCOPPB

Chemical Properties

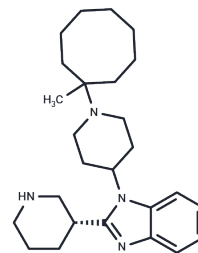
CAS No. : 1028969-49-4

Formula: C₂₆H₄₀N₄

Molecular Weight: 408.62

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	MCOPPB is a potent and selective agonist for the nociceptin receptor with a pK _i of 10.07, much weaker activity at other opioid receptors. In animal studies, MCOPPB produces potent anxiolytic effects, with no inhibition of motor or memory function, and only slight sedative side effects.
Targets(IC50)	Others,Opioid Receptor

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4473 mL	12.2363 mL	24.4726 mL
5 mM	0.4895 mL	2.4473 mL	4.8945 mL
10 mM	0.2447 mL	1.2236 mL	2.4473 mL
50 mM	0.0489 mL	0.2447 mL	0.4895 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

Hayashi S, Hirao A, Imai A, Nakamura H, Murata Y, Ohashi K, Nakata E. Novel non-peptide nociceptin/orphanin FQ receptor agonist, 1-[1-(1-Methylcyclooctyl)-4-piperidinyl]-2-[(3R)-3-piperidinyl]-1H-benzimidazole: design, synthesis, and structure-activity relationship of oral receptor occupancy in the brain for orally potent antianxiety drug. *J Med Chem.* 2009 Feb 12;52(3):610-25. doi: 10.1021/jm7012979. PubMed PMID: 19125610.

Hirao A, Imai A, Sugie Y, Yamada Y, Hayashi S, Toide K. Pharmacological characterization of the newly synthesized nociceptin/orphanin FQ-receptor agonist 1-[1-(1-methylcyclooctyl)-4-piperidinyl]-2-[(3R)-3-piperidinyl]-1H-benzimidazole

as an anxiolytic agent. *J Pharmacol Sci.* 2008 Mar;106(3):361-8. Epub 2008 Mar 5. PubMed PMID: 18319566.

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