

MCOPPB

Chemical Properties

CAS No.:	1028969-49-4
Formula:	C ₂₆ H ₄₀ N ₄
Molecular Weight:	408.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

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.
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Solubility Information

Solubility	Water: 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	2.447 mL	12.236 mL	24.473 mL
5 mM	0.489 mL	2.447 mL	4.895 mL
10 mM	0.245 mL	1.224 mL	2.447 mL
50 mM	0.049 mL	0.245 mL	0.489 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

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

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481