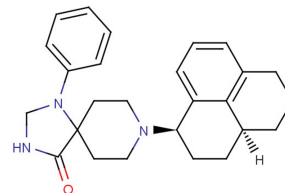


Ro 64-6198

Chemical Properties

CAS No.:	280783-56-4
Formula:	C ₂₆ H ₃₁ N ₃ O
Molecular Weight:	401.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ro 64-6198 is a nonpeptide, high-affinity, and brain penetration N/OFQ receptor (NOP) agonist (EC ₅₀ : 25.6 nM). Ro 64-6198 is at least 100 times more selective for the NOP receptor over the classic opioid receptors.
Targets(IC ₅₀)	Nociceptin receptor: None
In vitro	Ro 64-6198 does recruit both arrestin3 (EC ₅₀ of 0.912 μM) and arrestin2 (EC ₅₀ : 1.20 μM) to the NOP receptor in a concentration-dependent manner comparably with N/OFQ. Ro 64-6198 also produces rapid desensitization of the NOP receptor. Ro 64-6198 causes functional desensitization of the receptor, a loss in binding sites, and an apparent decrease in binding affinity. The desensitization produced by Ro 64-6198 is not reversed by acidic washes [1][2].
In vivo	Ro 64-6198 is anxiolytic in several neophobic tests at low doses, including the marble burying test in mice, the elevated plus-maze in rats, and the open field test in rats. In the marble burying test, Ro 64-6198 (1 mg/kg, i.p.,) produces a decrease in the number of marbles buried, without altering locomotor activity, indicating a decrease in neophobia and anxiety. Ro 64-6198 (0.32-3 mg/kg, i.p.,) selectively increases the number of open arm transitions and time spent in the open arms of the elevated plus-maze without affecting closed-arm transitions or locomotor activity in the closed arms. Ro 64-6198 (0.32-3 mg/kg) attenuates the inhibition of exploration that results from the stress of a novel environment [1].

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	2.49 mL	12.452 mL	24.904 mL
5 mM	0.498 mL	2.49 mL	4.981 mL
10 mM	0.249 mL	1.245 mL	2.49 mL
50 mM	0.05 mL	0.249 mL	0.498 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. Shoblock JR. The pharmacology of Ro 64-6198, a systemically active, nonpeptide NOP receptor (opiate receptor-like 1, ORL-1) agonist with diverse preclinical therapeutic activity. CNS Drug Rev. 2007 Spring;13(1):107-36.
2. Chang SD, et al. Novel Synthesis and Pharmacological Characterization of NOP Receptor Agonist 8-[(1S,3aS)-2,3,3a,4,5,6-Hexahydro-1H-phenalen-1-yl]-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one (Ro 64-6198). ACS Chem Neurosci. 2015 Dec 16;6(12):1956-64.

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