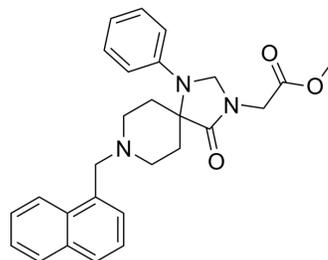


NNC 63-0532

Cat. No.:	HY-12698		
CAS No.:	250685-44-0		
Molecular Formula:	C ₂₇ H ₂₉ N ₃ O ₃		
Molecular Weight:	443.54		
Target:	Opioid Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (450.92 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2546 mL	11.2729 mL	22.5459 mL
	5 mM	0.4509 mL	2.2546 mL	4.5092 mL
	10 mM	0.2255 mL	1.1273 mL	2.2546 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 5 mg/mL (11.27 mM); Clear solution; Need ultrasonic and warming and heat to 80°C
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 5 mg/mL (11.27 mM); Clear solution; Need ultrasonic and warming and heat to 80°C
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 5 mg/mL (11.27 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

NNC63-0532 is a novel non-peptide nociceptin receptor (ORL1) agonist, with EC₅₀s of 305?nM. NNC63-0532 plays important roles in many disorders such as pain, drug addiction^[1].

REFERENCES

[1]. C Thomsen, et al. (8-Naphthalen-1-ylmethyl-4-oxo-1-phenyl-1,3,8-triaza-spiro[4.5]dec-3-yl)-acetic acid methyl ester (NNC 63-0532) is a novel potent nociceptin receptor agonist. Br J Pharmacol. 2000 Nov;131(5):903-8.

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

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