J-113397

®

MedChemExpress

Cat. No.:	HY-114072	
CAS No.:	256640-45-6	
Molecular Formula:	$C_{24}H_{37}N_{3}O_{2}$	
Molecular Weight:	399.57	HO
Target:	Opioid Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	N N
	in solvent so c, o months, -zo c, i month (sealed storage, away norm moisture)	

Product Data Sheet

BIOLOGICAL ACTI	VITY				
Description	J-113397 is the first poten agonistic effects on other	t and selective nonpeptidyl ORL1 rec opioid receptors ^[1] .	eptor antagonist (K _i : cloned hun	nan ORL1=1.8 nM) without any	
IC ₅₀ & Target	NOP Receptor/ORL1 1.8 ± 0.24 nM (Ki)	к Opioid Receptor/KOR 640 ± 87 nM (Ki)	μ Opioid Receptor/MOR 1000 ± 160 nM (Ki)	δ Opioid Receptor/DOR >10000 nM (Ki)	
In Vitro	J-113397 (0-500 nM) inhibits <u>Nociceptin</u> Nociceptin/orphanin FQ (HY-P0183)-stimulated [³⁵ S]GTPγS binding to CHO cells expressing ORL1 (CHO-ORL1) but had no effect on [³⁵ S]GTPγS binding by itself ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]				
	Cell Line:	CHO-ORL1 cells			
	Concentration:	0, 0.1, 1, 10, 100, 200, 500 nM			
	Incubation Time:	10 min			
	Result:	(GTPγS) binding to Chinese Har	FQ-stimulated [³⁵ S]guanosine 5΄ nster Ovary (CHO) cells expressin no effect on [³⁵ S]GTPγS binding	ng ORL1 (CHO-ORL1) with	
In Vivo	intracerebroventricular (i.	ocutaneously (s.c.); once) dose-deper c.v.) administration of <u>Nociceptin</u> No ly confirmed the accuracy of these m	ciceptin/orphanin FQ (HY-P0183)) in a tail-flick test with mice ^[1]	
	Animal Model:	Male ICR mice (15–25 g) ^[1]			
	Dosage:	0, 3, 10, 30 mg/kg			
	Administration:	Subcutaneously (s.c.), 10 min p the mice	rior to administering 0.1 nmol no	ociceptin/orphanin FQ to	

Result:	Dose-dependently inhibited hyperalgesia elicited by intracerebroventricular (i.c.v.)
	administration of nociceptin/orphanin FQ in a tail-flick test with mice.

REFERENCES

[1]. Ozaki S, et al. In vitro and in vivo pharmacological characterization of J-113397, a potent and selective non-peptidyl ORL1 receptor antagonist. Eur J Pharmacol. 2000 Aug 18;402(1-2):45-53.

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

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