(±)-J-113397

Cat. No.: HY-107721

CAS No.: 217461-40-0

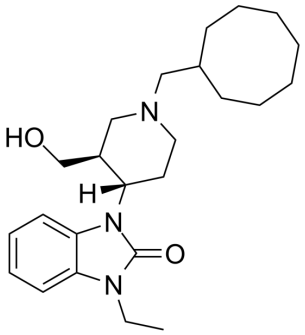
Molecular Formula: $C_{24}H_{37}N_3O_2$

Molecular Weight: 399.57

Target: Opioid Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 300 mg/mL (750.81 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5027 mL	12.5135 mL	25.0269 mL
5 mM	0.5005 mL	2.5027 mL	5.0054 mL
10 mM	0.2503 mL	1.2513 mL	2.5027 mL

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

BIOLOGICAL ACTIVITY

Description

(±)-J-113397 is a potent and selective non-peptidyl ORL1 receptor antagonist with a K_i of 1.8 nM for cloned human ORL1. J-113397 inhibited nociceptin/orphanin FQ-stimulated GTPγS binding to CHO cells expressing ORL1 with an IC_{50} value of 5.3 nM. J-113397 can be used for researching the physiological roles of nociceptin/orphanin FQ[1].

IC_{50} & Target

NOP Receptor/ORL1

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;402(1-2):45-53.

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

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