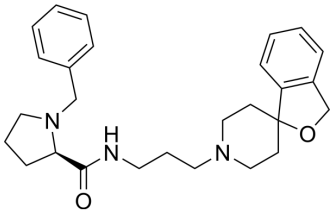
BAN ORL 24 free base

Cat. No.:	HY-13222A
CAS No.:	475150-69-7
Molecular Formula:	$C_{27}H_{35}N_3O_2$
Molecular Weight:	433.59
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BAN ORL 24 free base is a nociceptin/orphanin FQ (N/OFQ) peptide receptor (NOP) antagonist. BAN ORL 24 free base has antagonistic effect for nociceptin (NOP) receptor with K_I value of 0.24 nM in CHO cell. BAN ORL 24 free base can be used for the research of cancer and analgesic[1].
In Vitro	BAN ORL 24 has antagonist for NOR and MOR (opioid receptor subtype) with IC_{50} values of 50 μM and 0.224 μM, respectively [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BAN ORL 24 (10 mg/kg; i.v.) attenuates the duration of BPRIM97 thermal antinociception[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tao Hou, et al. Label-free cell phenotypic study of opioid receptors and discovery of novel mu opioid ligands from natural products. J Ethnopharmacol

[2]. Chao, et al. BPR1M97, a dual mu opioid receptor/nociceptin-orphanin FQ peptide receptor agonist, produces potent antinociceptive effects with safer properties than morphine. Neuropharmacology 166, 107678 (2020).

[3]. Fischetti et al (2009) Pharmacological characterization of the nociceptin/orphanin FQ receptor non peptide antagonist compound 24. Eur.J.Pharmacol. 614 50.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA