MCOPPB (hydrochloride)

CAS Registry No.: 1108147-88-1

Formal Name: 1-[1-(1-methylcyclooctyl)-4-piperidinyl]-2-(3R)-3-piperidinyl-1H-benzimidazole, trihydrochloride

MF: C_{26}H_{40}N_{4}•3HCl

FW: 518.0

Purity: ≥98%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid

UV/Vis: λ_{max}: 252, 275, 283 nm

Laboratory Procedures

For long term storage, we suggest that MCOPPB (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

MCOPPB (hydrochloride) is supplied as a crystalline solid. MCOPPB (hydrochloride) is soluble in water. The solubility of MCOPPB (hydrochloride) in water is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

The nociceptin/orphanin FQ peptide (NOP, ORL1, or OP_{4}) receptor is a member of the opioid family of receptors that integrates the emotional components of anxiety, fear, and stress. MCOPPB is a potent agonist for the NOP receptor (pKi = 10.1, EC_{50} = 0.39 nM) with 12-, 270-, and >1,000-fold selectivity over the μ-, κ-, and δ-opioid receptors. In rodents, MCOPPB at 10 mg/kg, p.o. produces potent anxiolytic effects, without inhibiting memory or motor function or inducing sedative side effects. This product is intended for research purposes only.

References


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WARNING: This Product is for Laboratory Research Only; Not for Administration to Humans. Not for Human or Veterinary Diagnostic or Therapeutic Use.