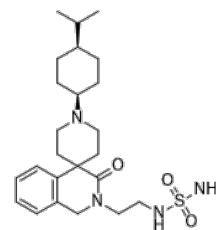


Product Name : AT-121
Cat. No. : PC-27539
CAS No. : 2099681-31-7
Molecular Formula : C₂₄H₃₈N₄O₃S
Molecular Weight : 462.65
Target : Opioid Receptor
Solubility : 10 mM in DMSO



CAS: 2099681-31-7

Biological Activity

AT-121 (AT121) is a potent, selective bifunctional nociceptin/orphanin FQ peptide / Mu opioid peptide (NOP/MOP) receptor agonist with K_i of 3.67/16.49 nM, respectively.

AT-121 show high potency (EC₅₀=35 nM) and partial agonist efficacy at the NOP receptor relative to N/OFQ, and high potency (EC₅₀=20 nM) and partial agonist activity at the MOP receptor, relative to DAMGO.

AT-121 shows significantly lower binding affinity at the DOP or KOP receptors (K_i >100 nM).

AT-121 (0.003-0.03 mg/kg, s.c. injection) produces potent antinociceptive and antiallodynic effects in nonhuman primates and humans.

AT-121 does not induce side effects commonly associated with opioids, such as respiratory depression, abuse potential, opioid-induced hyperalgesia, and physical dependence.

References

Ding H, et al. Sci Transl Med. 2018 Aug 29;10(456):eaar3483.

Elawy BE, et al. PLoS One. 2026 Apr 20;21(4):e0347529.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com