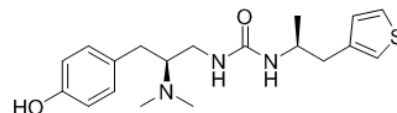


Product Name : PZM21
Cat. No. : PC-42356
CAS No. : 1997387-43-5
Molecular Formula : C₁₉H₂₇N₃O₂S
Molecular Weight : 361.50158
Target : Opioid Receptor
Solubility : 10 mM in DMSO



Biological Activity

PZM21 is a potent, selective G_i-biased μ-opioid-receptor (μOR) agonist with K_i/EC₅₀ of 1.1/4.6 nM, has little to no detectable κOR/δOR agonist or nociceptin receptor agonist activity; PZM21 is actually an κOR antagonist (K_i=18 nM), 500- to 1,000-fold weaker activity for hERG and neurotransmitter transporters; also has no detectable β-arrestin-2 recruitment in the PathHunter assay; unlike morphine, PZM21 is more efficacious for the affective component of analgesia versus the reflexive component and is devoid of both respiratory depression and morphine-like reinforcing activity in mice.

References

Manglik A, et al. Nature. 2016 Sep 8;537(7619):185-190.

Kostic M. Cell Chem Biol. 2016 Sep 22;23(9):1039-1040.

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

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