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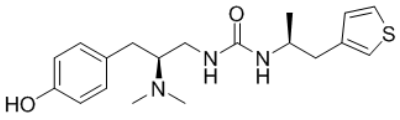
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PZM21
Cat. No.	:	PC-42356
CAS No.	:	1997387-43-5
Molecular Formula	:	$C_{19}H_{27}N_3O_2S$
Molecular Weight	:	361.50158
Target	:	Opioid Receptor
Solubility	:	10 mM in DMSO



Biological Activity

PZM21 is a potent, selective Gi-biased μ-opioid-receptor (**μOR, MOR**) agonist with Ki/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 (Ki=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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