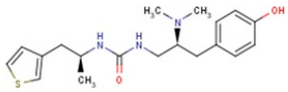
Product Name	:	PZM21
Synonyms	:	PZM21; PZM-21; PZM 21
Cat No.	:	M18199
CAS Number	:	1997387-43-5
Molecular Formula	:	C19H27N3O2S
Formula Weight	:	361.5
Chemical Name	:	1-[(2S)-2-(Dimethylamino)-3-(4-hydroxyphenyl)propyl]-3-[(2S)-1-(thiophen-3-yl)propan-2-yl]urea
Description	:	PZM21 is a potent Gi activator with exceptional selectivity for μOR and minimal β-arrestin-2 recruitment. PZM21 is an experimental opioid analgesic drug that is being researched for the treatment of pain. It is a functionally selective μ-opioid receptor agonist which produces μ-opioid receptor mediated G protein signaling, with potency and efficacy similar to morphine, but with less β-arrestin 2 recruitment. In tests on mice, PZM21 was slightly less potent than morphine or TRV130 as an analgesic, but also had significantly reduced adverse effects, with less constipation than morphine, and very little respiratory depression, even at high doses.
Pathway	:	Others
Target	:	Other Targets
Receptor	:	μ-opioid receptor
Solubility	:	DMSO : ≥ 72 mg/mL; 199.17 mM
SMILES	:	Oc1ccc(cc1)C[C@@H](CNC(=O)N[C@@H](C)Cc2ccsc2)N(C)C
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Manglik A, et al. Structure-based discovery of opioid analgesics with reduced side effects. Nature. 2016 Sep 8;537(7619):185-190.