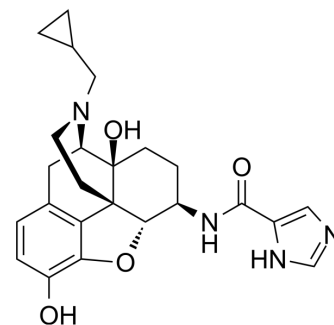


Mu opioid receptor antagonist 1

Cat. No.:	HY-144606
CAS No.:	2767446-03-5
Molecular Formula:	C ₂₄ H ₂₈ N ₄ O ₄
Molecular Weight:	436.5
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mu opioid receptor antagonist 1 (compound 19) is a selective and orally active μ opioid receptor (MOR) ligand with an K_i value of 0.58 nM and an EC_{50} of 1.15 nM. Orally administrating with Mu opioid receptor antagonist 1 increases intestinal motility during morphine-induced constipation. Mu opioid receptor antagonist 1 can be used for researching opioid-induced constipation (OIC) ^[1] .
IC₅₀ & Target	μ Opioid Receptor/MOR

REFERENCES

[1]. Huang B, et al. Rational Design, Chemical Syntheses, and Biological Evaluations of Peripherally Selective Mu Opioid Receptor Ligands as Potential Opioid Induced Constipation Treatment. J Med Chem. 2022;65(6):4991-5003.

Caution: Product has not been fully validated for medical applications. For research use only.

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