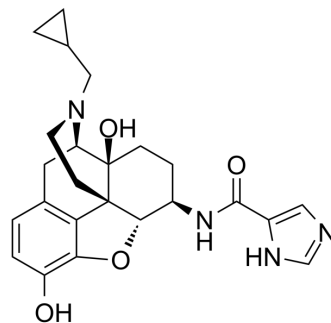


## Mu opioid receptor antagonist 1

Cat. No.:	HY-144606
Molecular Formula:	C <sub>24</sub> H <sub>28</sub> N <sub>4</sub> O <sub>4</sub>
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 $\mu$ 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) <sup>[1]</sup> .
IC <sub>50</sub> & Target	$EC_{50}$ : 1.15 nM (MOR) <sup>[1]</sup> $K_i$ : 0.58 nM (MOR) <sup>[1]</sup>

### 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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