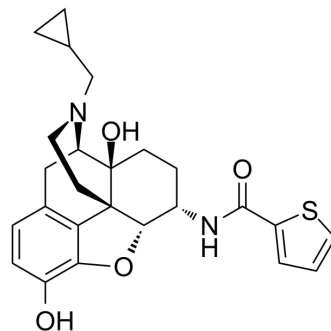


## Mu opioid receptor antagonist 2

Cat. No.:	HY-144607
Molecular Formula:	C <sub>25</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	452.57
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 2 (compound 25) is a potent, selective and blood-brain barrier (BBB) penetrant $\mu$ opioid receptor (MOR) antagonist with a $K_i$ of 0.37 nM and an $EC_{50}$ of 0.44 nM. Mu opioid receptor antagonist 2 has remarkable CNS antagonism against morphine, and precipitated fewer withdrawal symptoms than Naloxone. Mu opioid receptor antagonist 2 can be used for researching opioid use disorders (OUD) <sup>[1]</sup> .
IC <sub>50</sub> & Target	$EC_{50}$ : 0.44 nM (MOR) <sup>[1]</sup> $K_i$ : 0.37 nM (MOR) <sup>[1]</sup>

### REFERENCES

[1]. Pagare PP, et al. Design, Synthesis, and Biological Evaluation of NAP Isosteres: A Switch from Peripheral to Central Nervous System Acting Mu-Opioid Receptor Antagonists. *J Med Chem.* 2022;65(6):5095-5112.

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

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