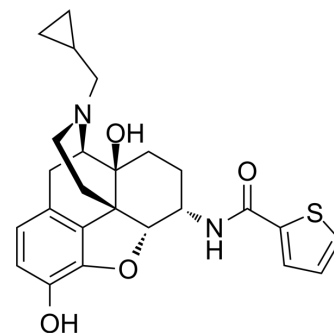


Mu opioid receptor antagonist 2

Cat. No.:	HY-144607
CAS No.:	2773925-64-5
Molecular Formula:	C ₂₅ H ₂₈ N ₂ O ₄ 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 μ 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) ^[1] .
IC ₅₀ & Target	μ Opioid Receptor/MOR

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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