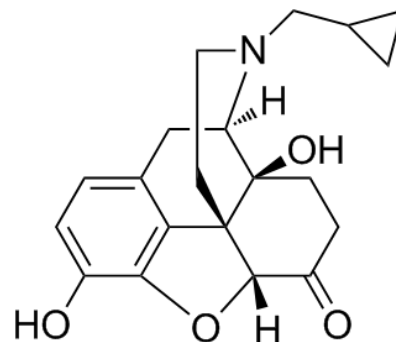


Product Name : Naltrexone
Cat. No. : PC-45979
CAS No. : 16590-41-3
Molecular Formula : C₂₀H₂₃NO₄
Molecular Weight : 341.4009
Target : Opioid Receptor
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

Naltrexone is a potent, competitive antagonist for μ , κ , δ , and σ -**opioid receptors** with K_i of 0.0825 nM, 0.509 nM, and 8.02 nM, for MOR, KOR, and DOR, respectively.

Naltrexone also inhibits IL-6 and TNF α production in human immune cell subsets following stimulation with ligands for intracellular TLRs.

Naltrexone is a TLR-4 antagonist that inhibits LPS-induced TLR4 downstream NO production in microglia BV-2 cells (IC₅₀=105 μ M).

References

Codd EE, et al. *J Pharmacol Exp Ther*. 1995 Sep;274(3):1263-70.

Cant R, et al. *Front Immunol*. 2017 Jul 11;8:809.

Selfridge BR, et al. *J Med Chem*. 2015 Jun 25;58(12):5038-52.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com