Naltrexone (hydrochloride)
Item No. 15520

CAS Registry No.: 16676-29-2
Formal Name: 17-(cyclopropylmethyl)-4,5α-epoxy-3,14-dihydroxy-morphinan-6-one, monohydrochloride
Synonyms: Antaxone, Depade, Trexan
MF: C_{20}H_{23}NO_4 \cdot HCl
FW: 377.9
Purity: ≥ 98%
Stability: ≥ 6 months at 4°C
Supplied as: A white to off-white solid

Laboratory Procedures
For long term storage, we suggest that naltrexone (hydrochloride) be stored as supplied at 4°C. It should be stable for at least six months.
Naltrexone (hydrochloride) is supplied as a white to off-white solid. A stock solution may be made by dissolving the naltrexone (hydrochloride) in the solvent of choice. Naltrexone (hydrochloride) is soluble in water at a concentration of approximately 100 mM.
Naltrexone is an orally bioavailable antagonist of opioid receptors that shows preference for the μ-receptor over the κ- and δ-receptors (Kᵢ = 0.30, 0.82, and 16 nM, respectively).1 By blocking signaling through the μ-opioid receptor, naltrexone reduces hedonic (reward) signaling associated with alcohol and opioid dependency.2,3 Naltrexone also halts the progression of experimental autoimmune encephalomyelitis, reverses neurological deficits, and prevents the onset of neurological dysfunction in mice.4 It also improves mental health quality of life in humans with multiple sclerosis.5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15520

WARNING: This product is for laboratory research only; not for administration to humans, not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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