Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Naltrexone (Hydrochloride)

Catalog No: tcsc0763

Available Sizes

Size: 100mg

Size: 250mg

Specifications

CAS No:
16676-29-2

Formula:
$C_{20}H_{24}ClNO_4$

Pathway:
GPCR/G Protein;Neuronal Signaling

Target:
Opioid Receptor;Opioid Receptor

Purity / Grade:
>98%

Solubility:
DMSO: ≥ 33 mg/mL

Observed Molecular Weight:
377.86

Product Description

Naltrexone hydrochlorideis an opioid receptor antagonist used primarily in the management of alcohol dependence and opioid dependence.

IC50 Value:

Target: Opioid Receptor

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Naltrexone is competitive antagonist for μ, κ, δ, and σ-opioid receptors, Naltrexone has greater oral efficacy and longer duration of action than naloxone. Naltrexone treatment caused a doubling in the density of [3H]DAMGO binding sites in both whole brain membranes and the 7315c cell membranes. Naltrexone treatment may have slightly diminished the affinity of mu opioid receptors for [3H]DAMGO (by 1.5- to 2-fold), but the precision of the assay was inadequate to determine whether this difference was significant. Naltrexone treatment also had no effect on the potency or efficacy of guanosine 5\'-O-(3-thiotriphosphate) in diminishing [3H]DAMGO binding to either whole brain or 7315c cell membranes. Naltrexone which has no SP receptor antagonistic action, not only indirectly acts on SP-ergic neurons but also causes a change in the apparent affinity of NK-1 receptor (as reflected by changes in IC50 values) in the striatum. Cellular inositol-1,4,5-trisphosphate [Ins(1,4,5)P3], quantified by a highly sensitive and selective radioreceptor mass assay, was increased in the striatum by 28% relative to control levels.