

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

Naltrexone hydrochloride

Product overview

Name	Naltrexone hydrochloride
Cat No	HB2452
Alternative names	NTX
Biological action	Antagonist
Purity	>99%
Description	Competitive opioid receptor antagonist

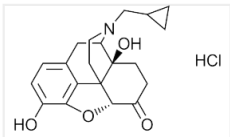
Biological Data

Biological description	Competitive opioid receptor antagonist (K_i values are 1.55, 7.84 and 0.71 nM at μ , δ and κ receptors respectively). Diminishes alcohol reward and motivation and decreases alcohol drinking. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(5 α)-17-(Cyclopropylmethyl)-4,5-epoxy γ -3,14-dihydromorphinan-6-one hydrochloride
Molecular Weight	377.87
Chemical structure	 The chemical structure shows the naltrexone molecule, which is a morphine derivative with a cyclopropylmethyl group at the 17-position and a 4,5-epoxide. It is shown as a hydrochloride salt. The structure is a complex polycyclic system with a morphine-like core.
Molecular Formula	$C_{20}H_{23}NO_4 \cdot HCl$
CAS Number	16676-29-2
PubChem identifier	5485201
SMILES	<chem>C1CC1CN2CC[C@]34[C@@H]5C(=O)CC[C@]3([C@H]2CC6=C4C(=C(C=C6)O)O5)O.CI</chem>
InChi	InChI=1S/C20H23NO4.ClH/c22-13-4-3-12-9-15-20(24)6-5-14(23)18-19(20,16(12)17(13)25-18)7-8-21(15)10-11-1-2-11;/h3-4,11,15,18,22,24H,1-2,5-10H2;1H/t15-,18+,19+,20-;/m1./s1
InChiKey	RHBRMCOKKKZVRY-ITLPAZOVSA-N
MDL number	MFCD00069324
Appearance	White solid