

Certificate of Analysis

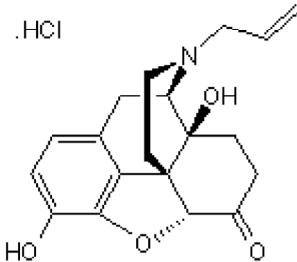
www.tocris.com**Product Name:** Naloxone hydrochloride**Catalog No.:** 0599**Batch No.:** 10

CAS Number: 357-08-4

EC Number: 206-611-0

IUPAC Name: (5 α)-4,5-Epoxy-3,14-dihydro-17-(2-propenyl)morphinan-6-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁NO₄.HCl.2H₂O**Batch Molecular Weight:** 399.87**Physical Appearance:** White solid**Solubility:** water to 100 mM**Storage:** Store at RT**Batch Molecular Structure:**

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 57.07 6.55 3.5

Found 57.09 6.52 3.49

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Product Name: Naloxone hydrochloride

CAS Number: 357-08-4

IUPAC Name: (5 α)-4,5-Epoxy-3,14-dihydro-17-(2-propenyl)morphinan-6-one hydrochloride

Catalog No.: 0599

Batch No.: 10

EC Number: 206-611-0

Description:

Naloxone hydrochloride is an opioid antagonist.

Storage: Store at RT

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₁NO₄.HCl.2H₂O

Solubility & Usage Info:

water to 100 mM

Batch Molecular Weight: 399.87

Stability and Solubility Advice:

Physical Appearance: White solid

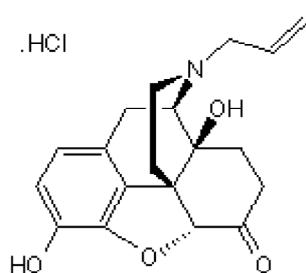
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Minimum Purity: ≥98%

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

Batch Molecular Structure:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.



SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Pinelli and Trivulzio (1997) Quantitative evaluation of opioid withdrawal signs in rats repeatedly treated with mor. and injected with naloxone, in the absence or presence of the antiabstinence agent clon. *J.Pharmacol.Toxicol.Methods* **38** 117. PMID: 9523765.

Spivak et al (1997) Naloxone activation of mu-opioid receptors mutated at a histidine residue lining the opioid cavity. *Mol.Pharmacol.* **52** 983. PMID: 9415708.

Olson et al (1996) Endogenous opiates: 1995. *Peptides* **17** 1421.

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