

Certificate of Analysis

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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

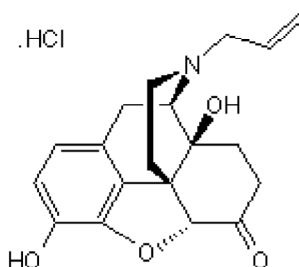
Batch Molecular Weight: 399.87

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

Description:

Naloxone hydrochloride is an opioid antagonist.

Physical and Chemical Properties:

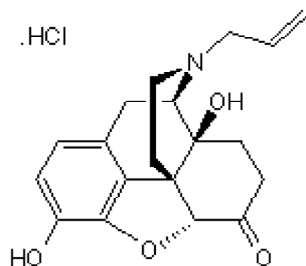
Batch Molecular Formula: C₁₉H₂₁NO₄.HCl.2H₂O

Batch Molecular Weight: 399.87

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

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).

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:

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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