

Certificate of Analysis

Product Name: Naloxonazine dihydrochloride

Catalog No.: 0591

Batch No.: 5

CAS Number: 880759-65-9

IUPAC Name: *Bis*-[5- α -4,5-Epoxy-3,14-dihydroxy-17-(2-propenyl)-morphinan-6-ylidene] hydrazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{38}H_{42}N_4O_6 \cdot 2HCl \cdot \frac{1}{2}H_2O$

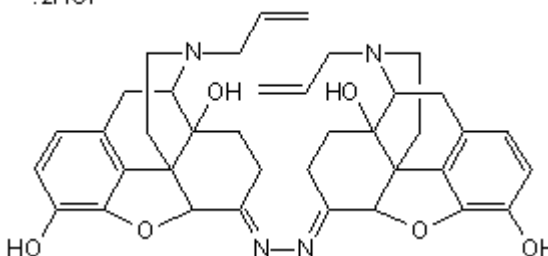
Batch Molecular Weight: 732.7

Physical Appearance: Off-white solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure: .2HCl



2. ANALYTICAL DATA

TLC: $R_f = 0.5$ (Chloroform:Methanol:Ammonia soln. [95:4.5:0.5])

HPLC: Shows 99.0% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.29	6.19	7.65
Found	62.34	6.22	7.63

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Description:

Potent opioid antagonist, selective for μ_1 receptors.

Physical and Chemical Properties:

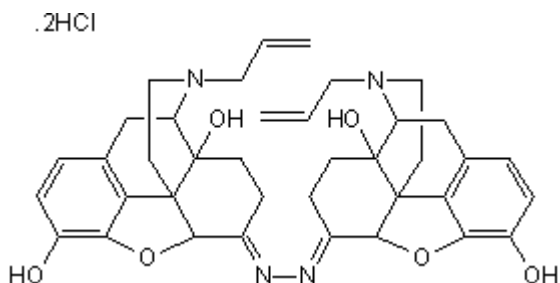
Batch Molecular Formula: $C_{38}H_{42}N_4O_6 \cdot 2HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 732.7

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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. Our standard recommendations are:

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:

Paul *et al* (1988) Differential blockade by naloxonazine of two μ opiate actions: analgesic and inhibition of gastrointestinal transit. *Eur.J.Pharmacol.* **149** 403. PMID: 2842168.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956