TOCRIS a biotechne brand

Certificate of Analysis

www.tocris.com

Print Date: Jul 8th 2016

Product Name: Naltrexone hydrochloride

Catalog No.: 0677 EC Number: 240-723-0

Batch No.: 7

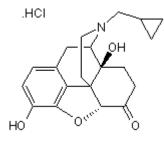
CAS Number: IUPAC Name:

16676-29-2

(5α)-17-(Cyclopropylmethyl)-4,5-epoxy-3,14-dihydromorphinan-6-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₂₀H₂₃NO₄.HCl.2H₂O 413.9 White solid water to 100 mM Store at RT



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis:

Shows 100% purity Consistent with structure Consistent with structure $[\alpha]_{D} = -190$ (Concentration = , Solvent =)

Carbon Hydrogen Nitrogen

Theoretical	58.04	6.82	3.38
Found	58.02	6.72	3.36

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

TOCRIS a biotechne brand

Product Information

www.tocris.com

Print Date: Jul 8th 2016

Batch No.: 7

Product Name: Naltrexone hydrochloride

CAS Number: IUPAC Name: 16676-29-2

e: (5α)-17-(Cyclopropylmethyl)-4,5-epoxy-3,14-dihydromorphinan-6-one hydrochloride

Description:

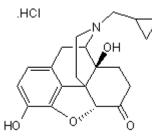
Opioid antagonist.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₃NO₄.HCl.2H₂O Batch Molecular Weight: 413.9 Physical Appearance: White solid

Minimum Purity: >99%

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).

Catalog No.: 0677

EC Number: 240-723-0

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:

Gold et al (1982) Naltrexone, opiate addiction, and endorphins. Med.Res.Rev. 2 211. PMID: 6289026.

Tempel et al (1982) Supersensitivity of brain opiate receptor subtypes after chronic naltrexone treatment. Life Sci. **31** 1401. PMID: 6292636.

Zukin et al (1982) Naltrexone-induced opiate receptor supersensitivity. Brain Res. 245 285. PMID: 6289965.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956