

Certificate of Analysis

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Product Name: Naltriben mesylate

Catalog No.: 0892

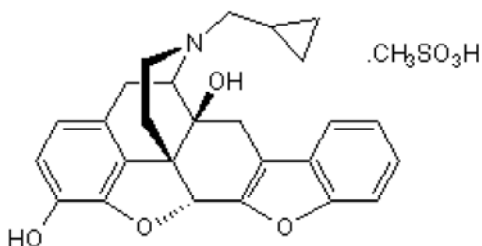
Batch No.: 5

CAS Number: 122517-78-6

IUPAC Name: 17-(Cyclopropylmethyl)-6,7-didehydro-3,14β-dihydroxy-4,5α-epoxy-6,7-2',3'-benzo[b]furanomorphinan mesylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₅NO₄.CH₃SO₃H.H₂O
Batch Molecular Weight: 529.61
Physical Appearance: White solid
Solubility: DMSO to 50 mM with gentle warming
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	61.23	5.9	2.64
Found	61.32	5.95	2.6

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

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Description:

Selective and potent δ-opioid receptor antagonist (K_i values are 0.013, 19 and 152 nM for δ, μ and κ receptors respectively). Displays selectivity for the δ₂ subtype in vivo.

Physical and Chemical Properties:

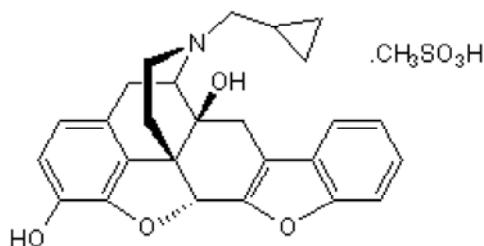
Batch Molecular Formula: C₂₆H₂₅NO₄.CH₃SO₃H.H₂O

Batch Molecular Weight: 529.61

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 50 mM with gentle warming

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.

Licensing Information:

Sold with the permission of the University of Minnesota

References:

Thorat and Hammond (1997) Modulation of nociception by microinjection of *delta*-1 and *delta*-2 opioid receptor ligands in the ventromedial medulla of the rat. *J.Pharmacol.Exp.Ther.* **283** 1185. PMID: 9399992.

Miyamoto et al (1993) Involvement of *delta*₂ opioid receptors in the development of morphine dependence in mice. *J.Pharmacol.Exp.Ther.* **264** 1141. PMID: 8383738.

Portoghese et al (1991) Role of spacer and address components in peptidomimetic δ opioid receptor antagonists related to naltrindole. *J.Med.Chem.* **34** 1715. PMID: 1851846.

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