

Product Name: β-Funaltrexamine hydrochloride

Catalog No.: 0926

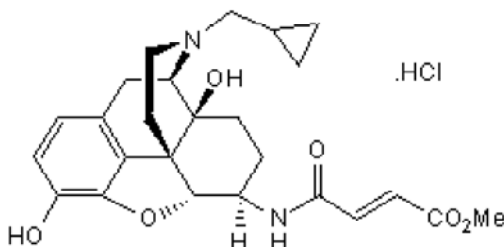
Batch No.: 9

CAS Number: 72786-10-8

IUPAC Name: (E)-4-[[5α,6β)-17-Cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxymorphinan-6-yl]amino]-4-oxo-2-butenoicacid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₀N₂O₆.HCl.1¼H₂O
Batch Molecular Weight: 513.51
Physical Appearance: White solid
Solubility: water to 20 mM with gentle warming
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol:Ammonia soln. [95:5:0.1])
HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.48	6.58	5.46
Found	58.2	6.49	5.53

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

Product Name: β -Funaltrexamine hydrochloride

Catalog No.: 0926

Batch No.: 9

CAS Number: 72786-10-8

IUPAC Name: (E)-4-[[5 α ,6 β)-17-Cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxymorphinan-6-yl]amino]-4-oxo-2-butenoic acid methyl ester hydrochloride

Description:

Selective μ opioid receptor antagonist.

Physical and Chemical Properties:

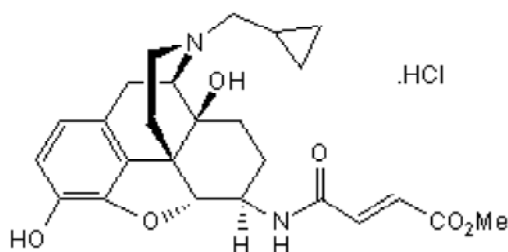
Batch Molecular Formula: C₂₅H₃₀N₂O₆.HCl.1¼H₂O

Batch Molecular Weight: 513.51

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM with gentle warming

DMSO 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. 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:

Jiang et al (1990) μ Antagonist and κ agonist properties of β -funaltrexamine (β -FNA) *in vivo*: long lasting spinal analgesia in mice. *J.Pharmacol.Exp.Ther.* **252** 1006. PMID: 2156986.

Takemorei et al (1981) The irreversible narcotic antagonist and reversible agonist properties of the fumarate methyl ester derivative of naltr. *Eur.J.Pharmacol.* **70** 445. PMID: 6263637.

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

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