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-butenoic acid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{25}H_{30}N_{2}O_{6}.HCl.\frac{1}{4}H_{2}O
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

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:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
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<td>58.2</td>
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<tr>
<td>Hydrogen</td>
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<td>6.49</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.46</td>
<td>5.53</td>
</tr>
</tbody>
</table>

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

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Description: Selective μ opioid receptor antagonist.

Physical and Chemical Properties:
Batch Molecular Formula: C_{28}H_{30}N_{2}O_{6}.HCl.1¼H_{2}O
Batch Molecular Weight: 513.51
Physical Appearance: White solid

Minimum Purity: ≥98%

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:
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References: