Product Name: Diprenorphine
Catalog No.: 2965
Batch No.: 2
CAS Number: 14357-78-9
EC Number: 238-325-7

IUPAC Name: 17-(Cycloproplylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-\(\alpha,\alpha\)-dimethyl-6,14-ethenomorphinan-7-methanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(\text{C}_{26}\text{H}_{35}\text{NO}_{4}\)
Batch Molecular Weight: 425.56
Physical Appearance: White solid
Solubility: DMSO to 20 mM, ethanol to 25 mM
Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

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<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
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<tr>
<td>Hydrogen</td>
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<td>Nitrogen</td>
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**Product Information**

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**Description:**
Non-selective opioid receptor antagonist (Kᵢ values are 0.017, 0.072 and 0.23 nM for κ-, μ- and δ-opioid receptors).

**Physical and Chemical Properties:**
- Batch Molecular Formula: C₂₆H₃₅NO₄
- Batch Molecular Weight: 425.56
- Physical Appearance: White solid
- Minimum Purity: ≥99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 20 mM
- Ethanol 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:**