

Product Name: Diprenorphine

Catalog No.: 2965

Batch No.: 2

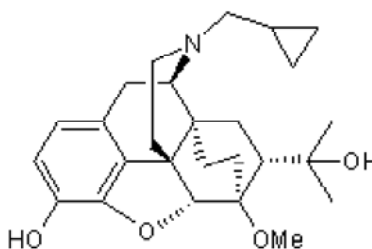
CAS Number: 14357-78-9

EC Number: 238-325-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₅NO₄
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
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.38	8.29	3.29
Found	73.3	8.29	3.36

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

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Description:

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

Physical and Chemical Properties:

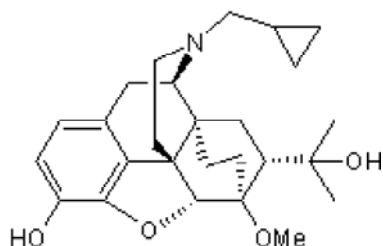
Batch Molecular Formula: $C_{26}H_{35}NO_4$

Batch Molecular Weight: 425.56

Physical Appearance: White solid

Minimum Purity: $\geq 99\%$

Batch Molecular Structure:



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:

Iwasaki et al (1994) The effect of the nonselective opioid antagonist diprenorphine vasopressin secretion in the rat. *Endocrinology* **134** 48. PMID: 8275962.

Raynor et al (1994) Pharmacological characterization of the cloned κ -, δ -, and μ -opioid receptors. *Mol.Pharmacol.* **45** 330. PMID: 8114680.

Paterson et al (1983) Classification of opioid receptors. *Br.Med.Bull.* **39** 31. PMID: 6301606.

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