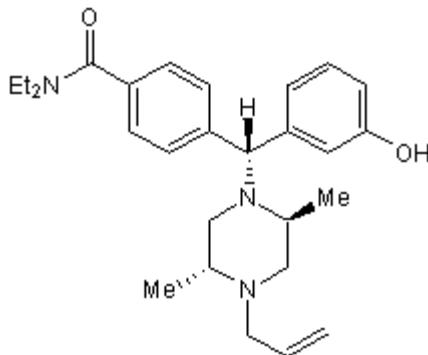


Certificate of Analysiswww.tocris.com**Product Name:** BW 373U86**Catalog No.:** 1663**Batch No.:** 2

CAS Number: 155836-50-3

IUPAC Name: 4-[(α R*)- α -((2S*,5R*)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-hydroxybenzyl]-N,N-diethylbenzamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₇H₃₇N₃O₂**Batch Molecular Weight:** 435.61**Physical Appearance:** Beige solid**Solubility:** 1eq. HCl to 100 mM
ethanol to 100 mM
DMSO to 25 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.43 (DCM:Methanol:Et3N (9:0.8:0.2))**HPLC:** Shows 99.4% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 74.45 8.56 9.65

Found 74.31 8.53 9.44

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

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Product Name: **BW 373U86**

Catalog No.: 1663

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IUPAC Name: 4-[(α R*)- α -((2S*,5R*)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-hydroxybenzyl]-N,N-diethylbenzamide

Description:

Potent, selective non-peptide δ -opioid receptor agonist. K_i values are 1.8, 15 and 34 nM for δ , μ and κ receptors respectively. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

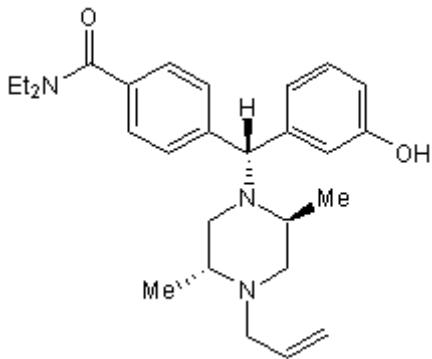
Batch Molecular Formula: C₂₇H₃₇N₃O₂

Batch Molecular Weight: 435.61

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 100 mM
ethanol to 100 mM
DMSO 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:

Chang *et al* (1993) A novel, potent and selective nonpeptidic *delta* opioid receptor agonist BW373U86. *J.Pharmacol.Exp.Ther.* **267** 852. PMID: 8246159.

Dykstra *et al* (1993) A novel *delta* opioid agonist, BW373U86, in squirrel monkeys responding under a schedule of shock titration. *J.Pharmacol.Exp.Ther.* **267** 875. PMID: 8246162.

Broom *et al* (2002) Comparison of receptor mechanisms and efficacy requirements for δ -agonist-induced convulsive activity and antinociception in mice. *J.Pharmacol.Exp.Ther.* **303** 723. PMID: 12388657.

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