

Product Name: SNC 80

Catalog No.: 0764

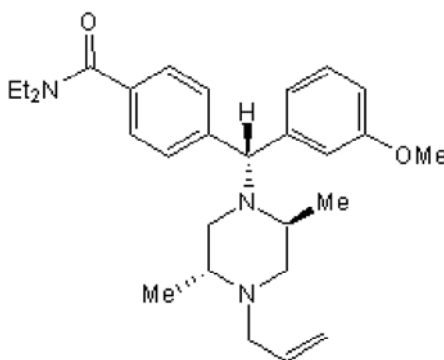
Batch No.: 21

CAS Number: 156727-74-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₃₉ N ₃ O ₂
Batch Molecular Weight:	449.64
Physical Appearance:	Off White solid
Solubility:	1eq. HCl to 100 mM with gentle warming DMSO to 20 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.5 (Dichloromethane:Methanol [9:1])
HPLC:	Shows 99.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = +23 (Concentration = 1, Solvent = Methanol)
Microanalysis:	
	Carbon Hydrogen Nitrogen
	Theoretical 74.8 8.74 9.35
	Found 74.47 8.74 9.31

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

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Description:

A highly selective and potent non-peptide δ -opioid agonist, 2000-fold selective over μ -opioid receptors.

Physical and Chemical Properties:

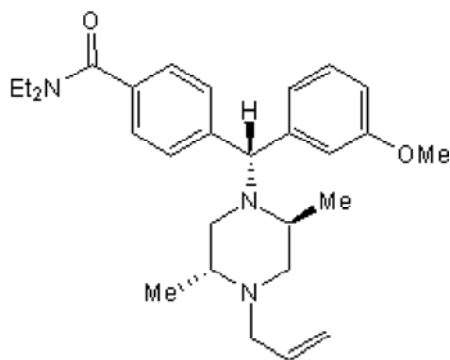
Batch Molecular Formula: C₂₈H₃₉N₃O₂

Batch Molecular Weight: 449.64

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. HCl to 100 mM with gentle warming
DMSO to 20 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:

Knapp et al (1996) Structure-activity relationships for SNC80 and related compounds at cloned human *delta* and *mu* opioid receptors. *J.Pharmacol.Exp.Ther.* **277** 1284. PMID: 8667189.

Bilsky et al (1995) SNC 80, a selective, nonpeptidic and systemically active opioid δ agonist. *J.Pharmacol.Exp.Ther.* **273** 359. PMID: 7714789.

Calderon et al (1994) Probes for narcotic receptor mediated phenomena. 19. Synthesis of (+)-4-[(α R)- α -((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide (SNC80): a highly selective nonpeptide σ opioid receptor agonist. *J.Med.Chem.* **37** 2125. PMID: 8035418.

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