

**Product Name:** SNC 80

**Catalog No.:** 0764

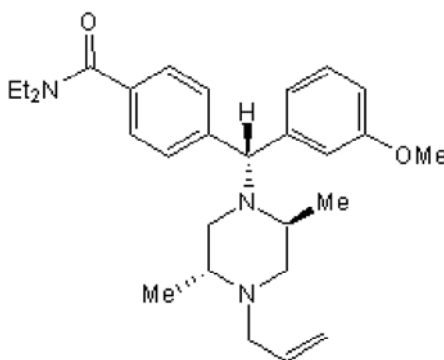
**Batch No.:** 22

CAS Number: 156727-74-1

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.6% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Optical Rotation:</b>	[ $\alpha$ ] <sub>D</sub> = +28.3 (Concentration = 1, Solvent = Methanol)
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	74.8	8.74	9.35
Found	74.39	8.84	9.57

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  $\delta$ -opioid agonist, 2000-fold selective over  $\mu$ -opioid receptors.

**Physical and Chemical Properties:**

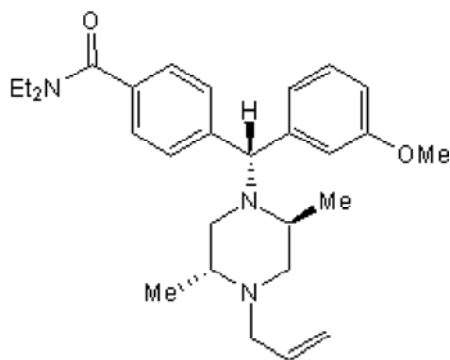
Batch Molecular Formula: C<sub>28</sub>H<sub>39</sub>N<sub>3</sub>O<sub>2</sub>

Batch Molecular Weight: 449.64

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 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  $\delta$  agonist. J.Pharmacol.Exp.Ther. **273** 359. PMID: 7714789.

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

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