

**Product Name:** SNC 162

**Catalog No.:** 1529

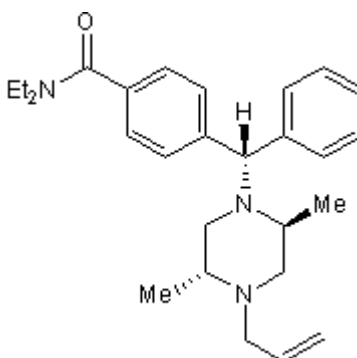
**Batch No.:** 1

CAS Number: 178803-51-5

IUPAC Name: 4-[(S)-[(2S,5R)-2,5-Dimethyl-4-(2-propenyl)-1-piperazinyl]phenylmethyl]-N,N-diethylbenzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>37</sub>N<sub>3</sub>O  
**Batch Molecular Weight:** 419.61  
**Physical Appearance:** White solid  
**Solubility:** 1eq. HCl to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Ethyl acetate)  
**Melting Point:** Between 155 - 156°C  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +28.2 (Concentration = 0.2, Solvent = Methanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	77.29	8.89	10.01
Found	77.31	8.96	10.02

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

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**Description:**

Potent and selective non-peptide  $\delta$ -opioid receptor agonist ( $K_i = 0.63$  nM). Displays > 8000-fold selectivity over  $\mu$ -opioid receptors and is centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

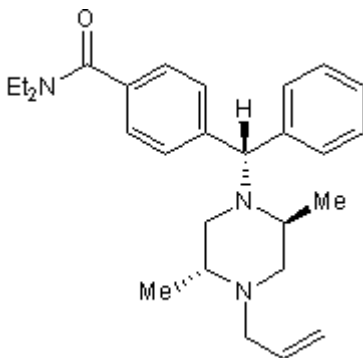
Batch Molecular Formula: C<sub>27</sub>H<sub>37</sub>N<sub>3</sub>O

Batch Molecular Weight: 419.61

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. HCl to 100 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.

**Calderon et al (1997)** Probes for narcotic receptor mediated phenomena. 23. Synthesis, opioid receptor binding, and bioassay of the highly selective  $\delta$  agonist (+)-4-[( $\alpha R$ )- $\alpha$ -((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide (SNC 80) and related novel nonpeptide  $\delta$  opioid receptor ligands. J.Med.Chem. **40** 695. PMID: 9057856.

**Negus et al (1998)** Behavioral effects of the *delta*-selective opioid agonist SNC80 and related compounds in rhesus monkeys. J.Pharmacol.Exp.Ther. **286** 362. PMID: 9655881.

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