

**Product Name:** SNC 121

**Catalog No.:** 1008

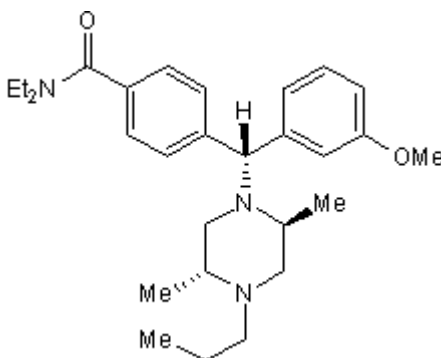
**Batch No.:** 4

CAS Number: 159860-31-8

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>41</sub>N<sub>3</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 451.65  
**Physical Appearance:** White solid  
**Solubility:** 1eq. HCl to 50 mM with gentle warming  
ethanol to 5 mM  
DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.35 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])  
**Melting Point:** Between 143 - 144°C  
**HPLC:** Shows >99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +14 (Concentration = .68, Solvent = Methanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	74.46	9.15	9.3
Found	74.18	9.32	9.21

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

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**Description:**

Saturated analog of the potent and selective  $\delta$  opioid receptor agonist SNC 80 (Cat. No. 0764), with a similar binding profile to the parent compound.

**Physical and Chemical Properties:**

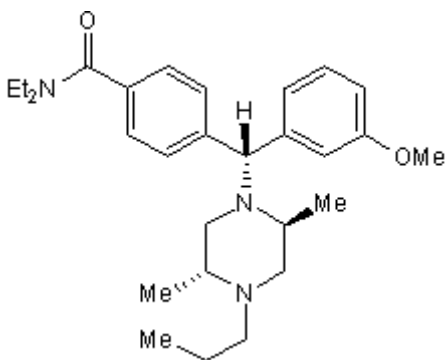
Batch Molecular Formula: C<sub>28</sub>H<sub>41</sub>N<sub>3</sub>O<sub>2</sub>

Batch Molecular Weight: 451.65

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. HCl to 50 mM with gentle warming  
ethanol to 5 mM  
DMSO 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:**

**Ni et al** (1995) Opioid peptide receptor studies 2. [<sup>3</sup>H]SNC-121, a novel, selective and high affinity ligand for opioid delta receptors. *Analgesia* **1** 185.

**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.

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