

Product Name: SNC 162

Catalog No.: 1529

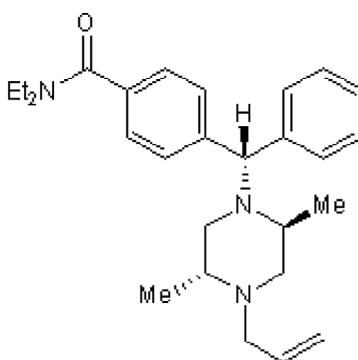
Batch No.: 1

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: C₂₇H₃₇N₃O
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_f = 0.28 (Ethyl acetate)
Melting Point: Between 155 - 156°C
HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +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:

SNC 162 is a potent and selective non-peptide δ -opioid receptor agonist ($K_i = 0.63$ nM). Displays > 8000-fold selectivity over μ -opioid receptors and is centrally active following systemic administration in vivo.

Physical and Chemical Properties:

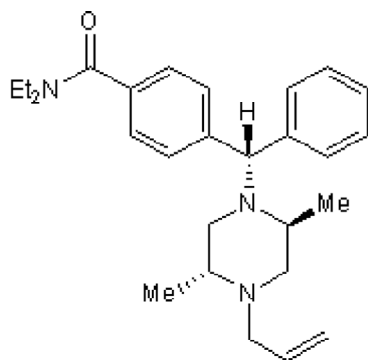
Batch Molecular Formula: C₂₇H₃₇N₃O

Batch Molecular Weight: 419.61

Physical Appearance: White solid

Minimum Purity: ≥98%

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

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.

Calderon et al (1997) Probes for narcotic receptor mediated phenomena. 23. Synthesis, opioid receptor binding, and bioassay of the highly selective δ agonist (+)-4-[(α R)- α -((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-< *J.Med.Chem.* **40** 695. PMID: 9057856.

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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