

Certificate of Analysis

Product Name: Org 27569

Catalog No.: 2957

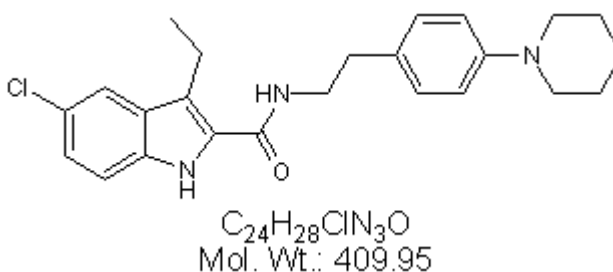
Batch No.: 1

CAS Number: 868273-06-7

IUPAC Name: 5-Chloro-3-ethyl-N-[2-[4-(1-piperidiny)phenyl]ethyl]-1*H*-indole-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₈ClNO₃
Batch Molecular Weight: 409.95
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 70.31 | 6.88 | 10.25 |
| Found | 70.53 | 6.92 | 10.32 |

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

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Description:

Potent CB₁ receptor allosteric modulator (pEC₅₀ = 8.24). Significantly increases binding of the CB₁ agonist [³H]CP 55.940 (pK_b = 5.67) and decreases binding of the CB₁ inverse agonist [³H]SR 141716A (pK_b = 5.95). Inhibits CB₁ receptor antagonist efficacy in vitro (pK_b = 7.57).

Physical and Chemical Properties:

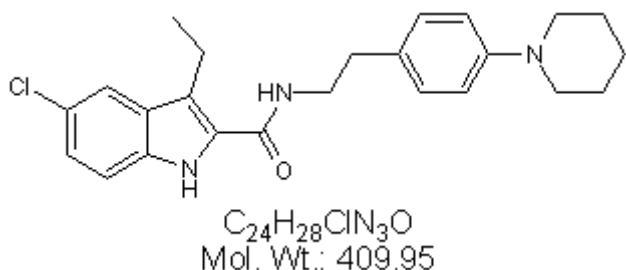
Batch Molecular Formula: C₂₄H₂₈ClN₃O

Batch Molecular Weight: 409.95

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Price et al (2005) Allosteric modulation of the Cannabinoid CB₁ receptor. *Mol.Pharmacol.* **68** 1484. PMID: 16113085.

Ross (2007) Allosterism and the cannabinoid CB₁ receptors: the shape of things to come. *Trends Pharmacol.Sci.* **28** 567. PMID: 18029031.

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