

Certificate of Analysis

Product Name: SB 366791

Catalog No.: 1615

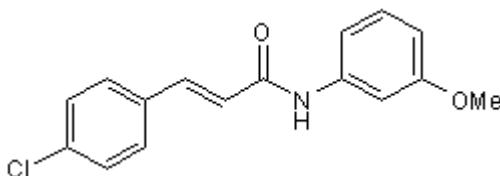
Batch No.: 1

CAS Number: 472981-92-3

IUPAC Name: 4'-Chloro-3-methoxycinnamanilide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄ClNO₂
Batch Molecular Weight: 287.75
Physical Appearance: White solid
Solubility: ethanol to 10 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Ethyl acetate:Petroleum ether [3:2])
Melting Point: Between 168 - 170°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.79	4.9	4.87
Found	66.56	4.89	4.74

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

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Description:

Potent, selective and competitive vanilloid TRPV1 receptor antagonist ($pA_2 = 7.71$ at hVR1); antagonizes hTRPV1 receptors activated by agonists, noxious heat, but not protons. Displays selectivity over a wide range of receptors and systems including CB₁ and CB₂ receptors, voltage-gated Ca²⁺ channels and the hyperpolarization-activated current (I_h). Also available as part of the Vanilloid TRPV1 Receptor Tocriset™.

Physical and Chemical Properties:

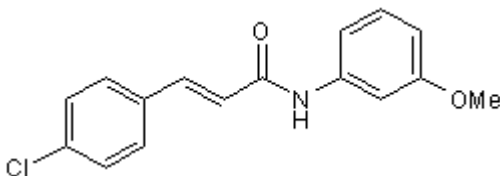
Batch Molecular Formula: C₁₆H₁₄ClNO₂

Batch Molecular Weight: 287.75

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Fowler et al (2003) Inhibition of C6 glioma cell proliferation by anandamide, 1-arachidonylglycerol, and by a water soluble phosphate ester of anandamide: variability in response and involvement of arachidonic acid. *Biochem.Pharmacol.* **66** 757. PMID: 12948856.

Gunthorpe et al (2004) Identification and characterisation of SB-366791, a potent and selective vanilloid receptor (VR1/TRPV1) antagonist. *Neuropharmacology* **46** 133. PMID: 14654105.

Gavva et al (2005) Proton activation does not alter antagonist interaction with the capsaicin-binding pocket of TRPV1. *Mol.Pharmacol.* **68** 1524. PMID: 16135784.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 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.

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