TOCRIS
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Print Date: Sep 17th 2020

# Certificate of Analysis

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**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:** $C_{16}H_{14}ClNO_2$

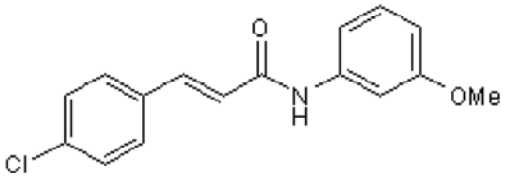
**Batch Molecular Weight:** 287.75

**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

**$^1$H NMR:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 66.79 | 4.9 | 4.87 |
| Found | 66.56 | 4.89 | 4.74 |



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# Product Information



**Product Name:** **SB 366791** **Catalog No.: 1615** **Batch No.: 1**

CAS Number: 472981-92-3

IUPAC Name: 4'-Chloro-3-methoxycinnamanilide

**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 $CB_1$ and $CB_2$ receptors, voltage-gated $Ca^{2+}$ channels and the hyperpolarization-activated current ($I_h$).

**Physical and Chemical Properties:**

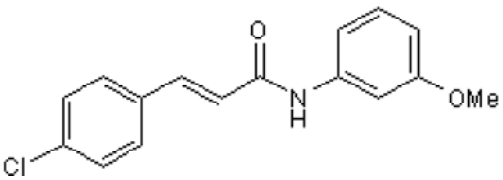
Batch Molecular Formula: $C_{16}H_{14}ClNO_2$

Batch Molecular Weight: 287.75

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**




**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.

**Licensing Information:**

Sold for research purposes under agreement from GlaxoSmithKline

**References:**

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

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

**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.



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