1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{16}\text{H}_{14}\text{ClNO}_2$

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:

![Molecular Structure](image)

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:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>66.79</td>
<td>4.9</td>
<td>4.87</td>
</tr>
<tr>
<td>Found</td>
<td>66.56</td>
<td>4.89</td>
<td>4.74</td>
</tr>
</tbody>
</table>
**Product Information**

**Product Name:** SB 366791  
**CAS Number:** 472981-92-3  
**IUPAC Name:** 4’-Chloro-3-methoxycinnamaldehyde

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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 CB_1 and CB_2 receptors, voltage-gated Ca^{2+} channels and the hyperpolarization-activated current (I_h). Also available as part of the Vanilloid TRPV1 Receptor Tocriset™.

**Physical and Chemical Properties:**  
**Molecular Formula:** C_{10}H_{14}ClNO  
**Molecular Weight:** 287.75  
**Appearance:** White solid  
**Minimum Purity:** >99%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**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.

**References:**  