

**Product Name:** SANT-2

**Catalog No.:** 3617

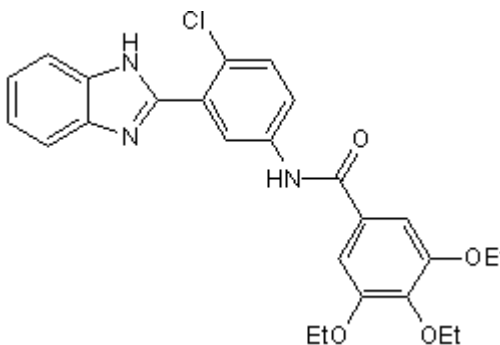
**Batch No.:** 1

CAS Number: 329196-48-7

IUPAC Name: *N*-[3-(1*H*-Benzimidazol-2-yl)-4-chlorophenyl]-3,4,5-triethoxybenzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>25</sub>ClN<sub>3</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 479.96  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.65 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.06	5.46	8.76
Found	64.74	5.48	8.73

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

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**Description:**

Inhibitor of Sonic hedgehog (Shh) signaling; antagonizes smoothed receptor activity ( $K_D = 12$  nM). Displays allosteric binding characteristics similar to SANT-1 (Cat. No. 1974). Displaces smo-<sup>3</sup>H]SAG-1.3 and -<sup>3</sup>H]Cyclopamine binding ( $K_i$  values are 7.8 nM and 8.4 nM respectively).

**Physical and Chemical Properties:**

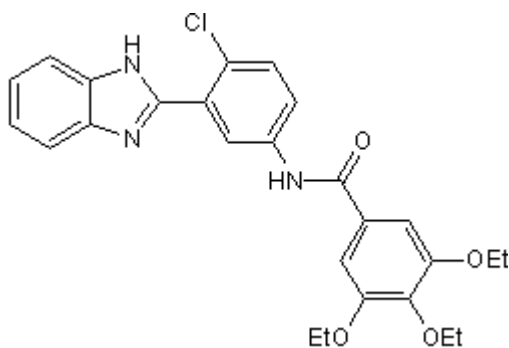
Batch Molecular Formula: C<sub>25</sub>H<sub>25</sub>ClN<sub>3</sub>O<sub>4</sub>

Batch Molecular Weight: 479.96

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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:**

**Chen *et al*** (2002) Small molecule modulation of smoothed activity. *Proc.Natl.Acad.Sci.* **99** 14071.

**Rominger *et al*** (2009) Evidence for allosteric interactions of antagonist binding to the smoothed receptor. *J.Pharmacol.Exp.Ther.* **329** 995. PMID: 19304771.

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