

## Certificate of Analysis

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**Product Name:** SCS

**Catalog No.:** 2143

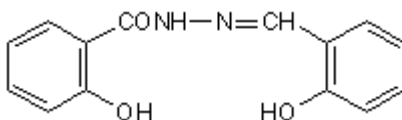
**Batch No.:** 1

CAS Number: 3232-36-8

IUPAC Name: Salicylidene salicylhydrazide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 256.26  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.63 (Dichloromethane:Methanol [18:1])  
**Melting Point:** Between 280 - 284°C  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.62	4.72	10.93
Found	65.64	4.72	11.02

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

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**Description:**

Potent and selective partial inhibitor of  $\beta 1$ -containing GABA<sub>A</sub> receptors (IC<sub>50</sub> values are 4.5, 5.3 and 7.9 nM at  $\alpha 2\beta 1\gamma 10$ ,  $\alpha 2\beta 1\gamma 1$  and  $\alpha 2\beta 1\gamma 2s$  GABA<sub>A</sub> receptors respectively). May bind allosterically to a novel site on GABA<sub>A</sub> receptor.

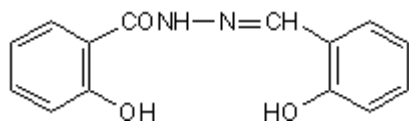
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 256.26

Physical Appearance: White solid

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**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 50 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:**

**Thompson *et al*** (2004) Salicylidene salicylhydrazide, a selective inhibitor of  $\beta 1$ -containing GABA<sub>A</sub> receptors. *Br.J.Pharmacol.* **142** 97. PMID: 15100159.

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