

Certificate of Analysis

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Product Name: SCH 202676 hydrobromide

Catalog No.: 1400

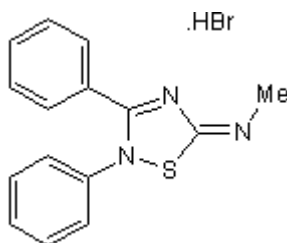
Batch No.: 1

CAS Number: 265980-25-4

IUPAC Name: *N*-(2,3-Diphenyl-1,2,4-thiadiazol-5(2*H*)-ylidene)methanamine hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃N₃S.HBr
Batch Molecular Weight: 348.26
Physical Appearance: White solid
Solubility: DMSO to 25 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.05])
Melting Point: Between 234 - 235°C
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Bromine
Theoretical	51.73	4.05	12.07	22.94
Found	51.78	4.05	12.02	22.78

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

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Description:

Sulphydryl-reactive compound that inhibits agonist and antagonist binding to G-protein-coupled receptors. Inhibits a variety of GPCRs including adenosine, opioid, muscarinic, adrenergic and dopaminergic receptors (IC₅₀ values are 0.1-1.8 μM).

Physical and Chemical Properties:

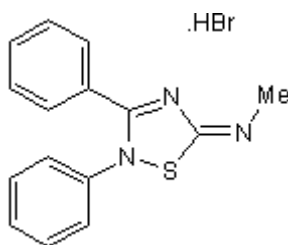
Batch Molecular Formula: C₁₅H₁₃N₃S.HBr

Batch Molecular Weight: 348.26

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Fawzi et al (2001) SCH-202676: an allosteric modulator of both agonist and antagonist binding to G protein-coupled receptors. *Mol.Pharmacol.* **59** 30. PMID: 11125021.

Gao et al (2004) Effects of the allosteric modulator SCH-202676 on adenosine and P2Y receptors. *Life Sci.* **74** 3173. PMID: 15081581.

Lewandowicz et al (2006) The 'allosteric modulator' SCH-202676 disrupts G protein-coupled receptor function via sulphydryl-sensitive mechanisms. *Br.J.Pharmacol.* **147** 422. PMID: 16402041.

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 25 mM with gentle warming

Unstable in basic conditions

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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