

Certificate of Analysis

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Product Name: SCH 50911

Catalog No.: 0984

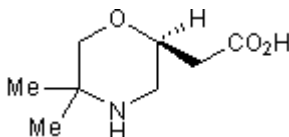
Batch No.: 12

CAS Number: 733717-87-8

IUPAC Name: (2S)-(+)-5,5-Dimethyl-2-morpholineacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₅NO₃
Batch Molecular Weight: 173.21
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 240 - 250°C(dec)
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +21 (Concentration = 1, Solvent = 0.1M HCl)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.47	8.73	8.09
Found	55.37	8.8	8.01

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

Product Information

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IUPAC Name: (2S)-(+)-5,5-Dimethyl-2-morpholineacetic acid

Description:

A selective, competitive and orally active GABA_B antagonist. Displays an IC₅₀ of 1.1 µM at GABA_B, approximately 60 times that of CGP 35348 (Cat. No. 1245) and no binding affinity for GABA_A at concentrations up to 100 µM.

Physical and Chemical Properties:

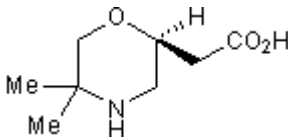
Batch Molecular Formula: C₈H₁₅NO₃

Batch Molecular Weight: 173.21

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline 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:

Bolser et al (1995) The pharmacology of SCH 50911: a novel, orally active GABA-B receptor antagonist. *J.Pharmacol.Exp.Ther.* **274** 1393. PMID: 7562513.

Hosford et al (1995) Characterization of the antiabsence effects of SCH 50911, a GABA_B receptor antagonist, in the lethargic mouse, γ-hydroxybutyrate, and pentylene-tetrazole models. *J.Pharmacol. Exp.Ther.* **274** 1399. PMID: 7562514.

Blythin et al (1996) Substituted morpholine-2S-acetic acid derivatives: SCH 50911 and related compounds as novel GABA_B antagonists. *Bioorg.Med.Chem.Lett.* **6** 1529.

Ong et al (1998) The morpholino-acetic acid analogue Sch 50911 is a selective GABA_B receptor antagonist in rat neocortical slices. *Eur.J.Pharmacol.* **362** 35. PMID: 9865527.

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