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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **MSPG** **Catalog No.: 0854** **Batch No.: 1**

CAS Number: 169209-64-7

IUPAC Name: (*RS*)-α-Methyl-4-sulfonophenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_{11}NO_5S$

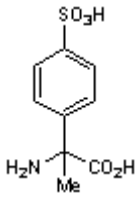
Batch Molecular Weight: 245.25

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.08	4.52	5.21
Found	44.34	4.71	5.62

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CAS Number: 169209-64-7

IUPAC Name: (*RS*)-α-Methyl-4-sulfonophenylglycine

Description:

Relatively non-selective antagonist of presynaptic mGlu receptors in neonatal rat spinal cord and adult rat cerebrocortical mGlu receptors.

Physical and Chemical Properties:

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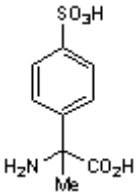

Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH 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:

Jane *et al* (1995) New phenylglycine derivatives with potent and selective antagonist activity at presynaptic glutamate receptors in neonatal rat spinal cord. Neuropharmacology ***34*** 851. PMID: 8532166.

Thomas *et al* (1995) Antagonism of L-AP4- and (1S,3S)-ACPD-induced depression of dorsal root-evoked monosynaptic excitation of neonatal rat motoneurones by the novel antagonists MSPG and MPPG. Br.J.Pharmacol. ***114*** 9P.

Bedingfield *et al* (1996) Novel potent selective phenylglycine antagonists of metabotropic glutamate receptors. Eur.J.Pharmacol. ***309*** 71. PMID: 8864696.

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