

## Certificate of Analysis

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**Product Name:** (RS)-(Tetrazol-5-yl)glycine

**Catalog No.:** 0312

**Batch No.:** 4

CAS Number: 138199-51-6

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>3</sub>H<sub>5</sub>N<sub>5</sub>O<sub>2</sub>.H<sub>2</sub>O

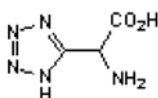
**Batch Molecular Weight:** 161.12

**Physical Appearance:** White solid

**Solubility:** water to 50 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.2 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])

**HPLC:** Shows >98% purity

**<sup>13</sup>C NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	22.36	4.38	43.47
Found	22.08	4.36	43.15

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

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**Product Name:** (RS)-(Tetrazol-5-yl)glycine

**Catalog No.:** 0312

**Batch No.:** 4

CAS Number: 138199-51-6

**Description:**

Potent NMDA receptor agonist, approximately 20 times more active than NMDA.

**Physical and Chemical Properties:**

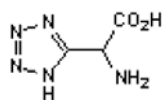
Batch Molecular Formula: C<sub>3</sub>H<sub>5</sub>N<sub>5</sub>O<sub>2</sub>·H<sub>2</sub>O

Batch Molecular Weight: 161.12

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water 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:**

**Arnt *et al*** (1995) Differentiation of *in vivo* effects of AMPA and NMDA receptor ligands using drug discrimination methods and convulsant/anticonvulsant activity. *Eur.J.Pharmacol.* **285** 289. PMID: 8575516.

**Moroni *et al*** (1995) NMDA receptor heterogeneity in mammalian tissues: focus on two agonists, (2S,3R,4S)cyclopropylglutamate and the sulfate ester of 4-hydroxy-(S)-pipercolic acid. *Naunyn Schmiedebergs Arch.Pharmacol.* **351** 371. PMID: 7543185.

**Schoepp *et al*** (1991) D,L-(Tetrazol-5-yl)glycine a novel and highly potent NMDA receptor agonist. *Eur.J.Pharmacol.* **203** 237. PMID: 1686860.

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