

Certificate of Analysis

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Product Name: Sarcosine

Catalog No.: 2975

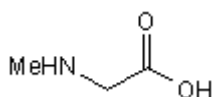
Batch No.: 1

CAS Number: 107-97-1

IUPAC Name: *N*-Methylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃H₇NO₂
Batch Molecular Weight: 89.09
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.13 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.45	7.92	15.72
Found	40.07	7.89	15.53

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

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IUPAC Name: N-Methylglycine

Description:

Endogenous inhibitor of GlyT1 that displays antipsychotic activity. Potentiates the action of glycine on the NMDA glycine binding site.

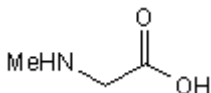
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

water 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:

Tsai et al (2004) Glycine transporter I inhibitor, N-methylglycine (Sarcosine), added to antipsychotics for the treatment of schizophrenia. *Biol.Psychiatry* **55** 452. PMID: 15023571.

Singh and Singh (2011) Meta-analysis of the efficacy of adjunctive NMDA receptor modulators in chronic schizophrenia. *CNS Drugs*. **25** 859. PMID: 21936588.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956