

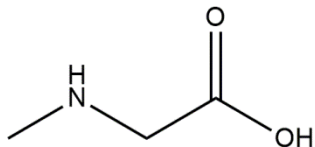
# Sarcosine

02/21

**ALTERNATE NAMES:** N-methylglycine; 2-(methylamino)acetic acid; N-Methylglycocol

**CATALOG #:** B3116-1G 1 g  
B3116-5G 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>

**MOLECULAR WEIGHT:** 89.09

**CAS NUMBER:** 107-97-1

**APPEARANCE:** White powder

**PURITY:** ≥ 97%

**SOLUBILITY:** ~9 mg/ml in water

**DESCRIPTION:** Sarcosine is an intermediate in the metabolism of glycine. Sarcosine is an antagonist of glycine transporter-1 (GlyT1) with an IC<sub>50</sub> value of 91 μM. It has beneficial effects in schizophrenia. Sarcosine levels are increased in metastatic prostate cancer.

**STORAGE TEMPERATURE:** -20 °C

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Herdon, H.J., Godfrey, F.M., Brown, A.M., et al. Pharmacological assessment of the role of the glycine transporter GlyT-1 in mediating high-affinity glycine uptake by rat cerebral cortex and cerebellum synaptosomes. *Neuropharmacology* 41(1), 88-96 (2001).
2. Tsai G., Lane, H-Y., Yang, P., et al. Glycine transporter I inhibitor, N-methylglycine (sarcosine), added to antipsychotics for the treatment of schizophrenia. *Biol Psychiatry*. 55(5):452-6 (2004).
3. Sreekumar, A., Poisson, L.M., Rajendiran, T.M., et al. Metabolomic profiles delineate potential role for sarcosine in prostate cancer progression. *Nature* 457(7231), 910-914 (2009).

**RELATED PRODUCTS:**

Perphenazine (Cat. No. B3115)  
Olanzapine (Cat. No. B2677)  
Bifeprunox (Cat. No. B2921)  
Sertraline (hydrochloride) (Cat. No. B2393)  
Granisetron Hydrochloride (Cat. No. B3205)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*