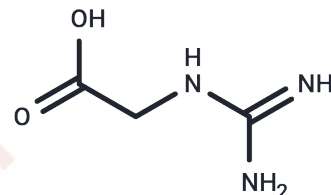


## Glycoamine

## Chemical Properties

CAS No. :	352-97-6
Formula:	C <sub>3</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	117.11
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Glycoamine (2-Guanidinoacetic acid), a precursor of creatine, is a replacement of dietary arginine and could support overall energy homeostasis of the bird. Glycoamine is an important marker for renal failure, kidney transplantation, and the renal metabolic activity. The compound is a metabolite of guanidine.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Insoluble, H <sub>2</sub> O: 2.95 mg/mL (25.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.539 mL	42.6949 mL	85.3898 mL
5 mM	1.7078 mL	8.539 mL	17.078 mL
10 mM	0.8539 mL	4.2695 mL	8.539 mL
50 mM	0.1708 mL	0.8539 mL	1.7078 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Dilger RN, et al. Dietary guanidino acetic acid is an efficacious replacement for arginine for young chicks. *Poult Sci.* 2013 Jan;92(1):171-7.
- Zugno A I, et al. Guanidinoacetate Decreases Antioxidant Defenses and Total Protein Sulfhydryl Content in Striatum of Rats[J]. *Neurochemical Research*, 2008, 33(9):1804-1810.

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