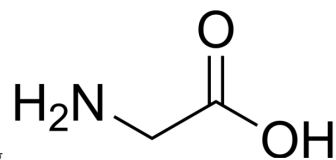


## Glycine

<b>Cat. No.:</b>	HY-Y0966		
<b>CAS No.:</b>	56-40-6		
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	75.07		
<b>Target:</b>	Endogenous Metabolite; iGluR		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 25 mg/mL (333.02 mM; Need ultrasonic)  
 Methanol : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	13.3209 mL	66.6045 mL	133.2090 mL
	5 mM	2.6642 mL	13.3209 mL	26.6418 mL
	10 mM	1.3321 mL	6.6605 mL	13.3209 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Glycine is an inhibitory neurotransmitter in the CNS and also acts as a co-agonist along with glutamate, facilitating an excitatory potential at the glutamergic N-methyl-D-aspartic acid (NMDA) receptors.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite	NMDA Receptor	Microbial Metabolite
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### CUSTOMER VALIDATION

- Exp Brain Res. 2023 Oct 16.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. Johnson JW, et al. Glycine potentiates the NMDA response in cultured mouse brain neurons. Nature. 1987 Feb 5-11;325(6104):529-31.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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