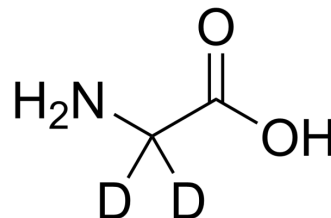


## Glycine-d<sub>2</sub>

<b>Cat. No.:</b>	HY-Y0966S1												
<b>CAS No.:</b>	4896-75-7												
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>3</sub> D <sub>2</sub> NO <sub>2</sub>												
<b>Molecular Weight:</b>	77.08												
<b>Target:</b>	iGluR; Endogenous Metabolite; Isotope-Labeled Compounds												
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Others												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (1621.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass		1 mg	5 mg	10 mg
	Concentration				
	1 mM		12.9735 mL	64.8677 mL	129.7353 mL
	5 mM		2.5947 mL	12.9735 mL	25.9471 mL
	10 mM		1.2974 mL	6.4868 mL	12.9735 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Glycine-d<sub>2</sub> is the deuterium labeled Glycine. Glycine is an inhibitory neurotransmitter in the CNS and also acts as a co-agonist along with glutamate, facilitating an excitatory potential at the glutamnergic N-methyl-D-aspartic acid (NMDA) receptors.

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

NMDA Receptor

#### In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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