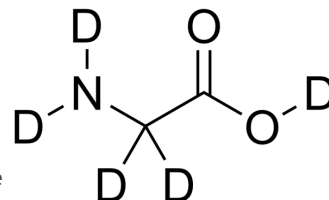


Glycine-d₅

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-Y0966S8 | | |
| CAS No.: | 4896-77-9 | | |
| Molecular Formula: | C ₂ D ₅ NO ₂ | | |
| Molecular Weight: | 80.1 | | |
| Target: | iGluR; Endogenous Metabolite | | |
| Pathway: | Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 125 mg/mL (1560.55 mM)
 * "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|------------|------------|-------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 12.4844 mL | 62.4220 mL | 124.8439 mL |
| | 5 mM | 2.4969 mL | 12.4844 mL | 24.9688 mL |
| | 10 mM | 1.2484 mL | 6.2422 mL | 12.4844 mL |

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

BIOLOGICAL ACTIVITY

Description

Glycine-d₅ 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.

IC₅₀ & 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^[1].

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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