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Zuschläge

- Mindermengenzuschlag
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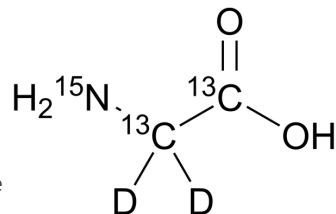
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Glycine-¹³C₂,¹⁵N,d₂

Cat. No.:	HY-Y0966S11
CAS No.:	1984075-49-1
Molecular Formula:	¹³ C ₂ H ₃ D ₂ ¹⁵ NO ₂
Molecular Weight:	80.06
Target:	iGluR; Endogenous Metabolite
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Glycine- ¹³ C ₂ , ¹⁵ N,d ₂ is the deuterium, ¹³ C and ¹⁵ N labeled Glycine[1]. Glycine is an inhibitory neurotransmitter in the CNS and also acts as a co-agonist along with glutamate, facilitating an excitatory potential at the glutaminergic N-methyl-D-aspartic acid (NMDA) receptors[2].
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

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.
- [2]. Johnson JW, et al. Glycine potentiates the NMDA response in cultured mouse brain neurons. *Nature.* 1987 Feb 5-11;325(6104):529-31.

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

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