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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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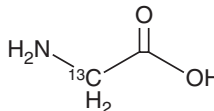
PRODUCT INFORMATION



Glycine-¹³C

Item No. 35130

CAS Registry No.: 20220-62-6
Formal Name: glycine-2-¹³C
Synonym: Aminoacetic Acid-¹³C
MF: C₂[¹³C]H₅NO₂
FW: 76.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Glycine-¹³C is supplied as a solid. Aqueous solutions of glycine-¹³C can be prepared by directly dissolving the solid in aqueous buffers. The solubility of glycine-¹³C in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Glycine-¹³C is intended for use as an internal standard for the quantification of glycine by GC- or LC-MS. Glycine is a conditionally essential amino acid and the major inhibitory neurotransmitter in the spinal cord and brainstem.^{1,2} It is synthesized from threonine, choline, hydroxyproline, and serine *via* interorgan metabolism between the liver and kidneys.² It can also be derived from dietary sources. Glycine is essential to protein synthesis and the conjugation of bile acids and is a precursor in glutathione, purine, heme, and serine synthesis.

References

1. Zafra, F., Aragón, C., Olivares, L., *et al.* Glycine transporters are differentially expressed among CNS cells. *J. Neurosci.* **15**(5 Pt 2), 3952-3969 (1995).
2. Wang, W., Wu, Z., Dai, Z., *et al.* Glycine metabolism in animals and humans: Implications for nutrition and health. *Amino Acids* **45**(3), 463-477 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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