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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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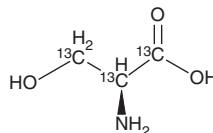
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PRODUCT INFORMATION



L-Serine-¹³C₃
Item No. 35126

CAS Registry No.: 201595-68-8
Formal Name: L-serine-1,2,3-¹³C₃
Synonym: (S)-Serine-¹³C₃
MF: [¹³C]₃H₇O₃
FW: 108.1
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

L-Serine-¹³C₃ is supplied as a solid. A stock solution may be made by dissolving the L-serine-¹³C₃ in the solvent of choice, which should be purged with an inert gas. L-Serine-¹³C₃ is slightly soluble in water (sonicated).

Description

L-Serine-¹³C₃ is intended for use as an internal standard for the quantification of L-serine (Item No. 33561) by GC- or LC-MS. L-Serine is a non-essential amino acid.¹ It is produced from 3-phosphoglycerate in a multistep biosynthesis catalyzed by phosphoglycerate dehydrogenase (PGDH), phosphoserine aminotransferase (PSAT), and phosphoserine phosphatase (PSP). L-Serine can also be derived from dietary sources, as well as protein and phospholipid turnover. Defective L-serine biosynthesis is associated with neural tube defects and deoxysphingolipid accumulation in patients with Neu-Laxova syndrome, a rare disease characterized by a mutation in *PGDH*.^{1,2} Dysregulation of L-serine phosphorylation is associated with disease progression in patients with neurodegenerative diseases, including Alzheimer's disease and amyotrophic lateral sclerosis.

References

1. Holm, L.J. and Buschard, K. L-serine: A neglected amino acid with a potential therapeutic role in diabetes. *APMIS* **127**(10), 655-659 (2019).
2. Metcalf, J.S., Dunlop, R.A., Powell, J.T., et al. L-serine: A naturally-occurring amino acid with therapeutic potential. *Neurotox. Res.* **33**(1), 213-221 (2018).

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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