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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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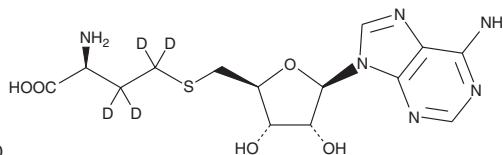
PRODUCT INFORMATION



S-Adenosylhomocysteine-d₄

Item No. 9000372

Formal Name: S-(5'-deoxyadenosin-5'-yl)-L-homocysteine-d₄
Synonym: SAH-d₄
MF: C₁₄H₁₆D₄N₆O₅S
FW: 388.4
Chemical Purity: ≥98% (S-Adenosylhomocysteine)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

S-Adenosylhomocysteine-d₄ (SAH-d₄) is intended for use as an internal standard for the quantification of SAH by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

SAH-d₄ is supplied as a crystalline solid. A stock solution may be made by dissolving the SAH-d₄ in the solvent of choice, which should be purged with an inert gas. SAH-d₄ is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of SAH-d₄ in these solvents is approximately 5 and 1 mg/ml, respectively.

Description

S-Adenosyl-L-homocysteine (SAH) is an amino acid derivative and an intermediate, by-product, or modulator of several metabolic pathways, including the activated methyl cycle and cysteine biosynthesis. It is also a product of S-adenosyl-methionine (SAM)-dependent methylation of biological molecules, including DNA, RNA, and histones and other proteins. SAH is a risk factor for many diseases, including cancer and neurodegenerative diseases. In addition, inhibitors that block its hydrolysis are being developed as anti-viral, anti-parasitic, anti-arthritis and immunosuppressive agents.

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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