SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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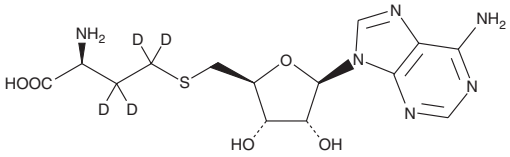
PRODUCT INFORMATION

S-Adenosylhomocysteine-d_4

Item No. 9000372

Formal Name:	S-(5'-deoxyadenosin-5'-yl)-L-homocysteine-d_4
Synonym:	SAH-d_4
MF:	$C_{14}H_{16}D_4N_6O_5S$
FW:	388.4
Chemical Purity:	≥98% (S-Adenosylhomocysteine)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
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-d_4 (SAH-d_4) 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-d_4 is supplied as a crystalline solid. A stock solution may be made by dissolving the SAH-d_4 in the solvent of choice, which should be purged with an inert gas. SAH-d_4 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of SAH-d_4 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-arthritic and immunosuppressive agents.

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