

KRISHZYME™ S-adenosylmethionine

Catalog Number: KLPL12301 / KLPL12302 / KLP12303

Description

S-Adenosyl methionine (SAM) is an auxiliary substrate involved in methyl transfer reaction. It is synthesized in vivo by adenosine triphosphate and methionine under the action of Methionine adenosyltransferase. SAM is prepared in 0.01 M HCL and 10% ETOH and filtered.

CAS

29908-03-0

Appearance:

Colorless transparent liquid

Concentration:

32 ± 2mM

Purity (HPLC):

>90% (S, S >75%)

Endotoxin

< 1EU/ml

Formulation:

KRISHZYME™ RNase Inhibitor is supplied as a liquid.

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving for at least 12 months. It is recommended to aliquot the substrate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Product Instruction

Long-term storage: If the prepared recombinant cell digestion solution needs to be stored for a longer period, Store at -20°C not exceeding 12 months from date of preparation.

Application:

For the methylation reaction experimentation, SAM can be diluted 400 times to the final concentration of 80 uM.

Precautions:

- 1) S-Adenosylmethionine (SAM) can be dissolved at room temperature. After dissolution, it should be stored in an ice box or on an ice bath. After use, it should be stored at -15 - 25°C immediately.
- 2) For safety, please wear lab coat and disposable gloves when using the substrate.

References:

S-Adenosylmethionine: molecular, biological, and clinical aspects—an introduction
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A Williams, C Girard, D Jui, A Sabina... - Clinical and ..., 2005 - search.proquest.com

S-adenosylmethionine and its products
MA Grillo, S Colombo - Amino acids, 2008 - Springer

S-Adenosylmethionine: jack of all trades and master of everything?
WAM Loenen - Biochemical Society Transactions, 2006 - portlandpress.com

S-adenosylmethionine in Liver Health, Injury, and Cancer
SC Lu, JM Mato - Physiological reviews, 2012 - journals.physiology.org

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