
Product Data Sheet

Product Name: AHCY Human

Cat. No.: GP21367

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms EC 3.3.1.1; SAHH; AdoHcyase; S-adenosyl-L-homocysteine hydrolase; Adenosylhomocysteinase.

Amino Acid Sequence

MGSSHHHHHH SSGLVPRGSH MSDKLPYKVA DIGLAAWGRK ALDIAENEMP
 GLMRMRERYS ASKPLKGARI AGCLHMTVET AVLIETLVTL GAEVQWSSCN
 IFSTQDHAAA AIAKAGIPVY AWKGETDEEY LWCIEQTLYF KDGPLNMILD
 DGGDLTNLIH TKYPQLLPGI RGISEETTTG VHNLYKMMAN GILKVPAINV
 NDSVTKSKFD NLYGCRESLI DGIKRATDVM IAGKVAVVAG YGDVVGKGAQ
 ALRGFGARVI ITEIDPINAL QAAMEGYEVT TMDEACQEGN IFVTTTGCID
 IILGRHF EQM KDDAIVCNIG HFDVEIDVKW LNENAVEKVN IKPQVDRYRL
 KNGRRIILLA EGRLVNLGCA MGHPSFVMSN SFTNQVMAQI ELWTHPKYP
 VGVHFLPKKL DEAVAEAHLG KLNVKLTKLT EKQAQYLGMS CDGPFKPDHY RY.

Formulation AHCY Human solution containing 20mM Tris pH-8, & 10% glycerol.

Introduction

AHCY is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). AHCY controls the intracellular S-adenosylhomocysteine (SAH) concentration that is crucial for transmethylation reactions. AHCY deficiency causes hypermethioninemia.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AHCY Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 452 amino acids (1-432 a.a.) and having a molecular mass of 49.8 kDa. The AHCY is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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