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## Product Data Sheet

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Product Name: AHCY Mouse  
 Cat. No.: GP21369  
 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 MGSMSDKLP YKVADIGLAA WGRKALDIAE NEMPGLMRMR EMYSASKPLK GARIAGCLHM TVETAVLIET LVALGAEVRW SSCNIFSTQD HAAAAIAKAG IPVFAWKGET DEEYLWCIEQ TLHFKDGPLN MILDDGGDLT NLIHTKYPQL LSGIRGISEE TTTGVHNLYK MMSNGILKVP AINVNSVTK SKFDNLYGCR ESLIDGIKRA TDVMIAGKVA VVAGYGDVVGK GCAQALRGFG ARVIITEIDP INALQAAMEG YEVTMDEAC KEGNIFVTTT GCVDIILGRH FEQMKDDAIV CNIGHFDVEI DVKWLNENAV EKVNIKPQVD RYWLKNGRRI ILLAEGRLVN LGCAMGHPSF VMSNSFTNQV MAQIELWTHP DKYPVGVHFL PKKLDEAVAE AHLGKLVNKL TKLTEKQAQY LGMPINGPFK PDHYRY.		
Formulation	AHCY protein solution (0.25mg/ml) containing 20mM Tris-Hcl buffer (pH8.0) containing 40% glycerol 0.2M NaCl, 1mM DTT.		

### 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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

AHCY Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 456 amino acids (1-432 a.a) and having a molecular mass of 50.2kDa. AHCY is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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