

## AHCY Human

**Description:**AHCY Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 452 amino acids (1-432 a.a.) and having a molecular mass of 49.8 kDa. The AHCY is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:ENPS-539

For research use only.

**Synonyms:**EC 3.3.1.1, SAHH, AdoHcyase, S-adenosyl-L-homocysteine hydrolase, Adenosylhomocysteinase.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**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 IA

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

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

**Stability:**

AHCY Human although stable at 4°C for 1 week, should be stored desiccated below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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