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# Recombinant human Adenosylhomocysteinease/AHCY protein

Catalog Number: ATGP0606

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-432aa

#### **UniProt No.**

P23526

#### **NCBI Accession No.**

NP 000678.1

#### **Alternative Names**

Adenosylhomocysteinase isoform 1, AHCY, AdoHcyase, SAHH, S-adenosylhomocysteine hydrolase

# PRODUCT SPECIFICATION

### **Molecular Weight**

49.8 kDa (452aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

AHCY, also known as adenosylhomocysteinase, is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). It regulates the intracellular S-adenosylhomocysteine (SAH) concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia. Recombinant human AHCY protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques



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## **Amino acid Sequence**

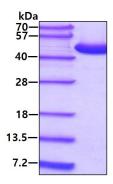
<MGSSHHHHHH SSGLVPRGSH> MSDKLPYKVA DIGLAAWGRK ALDIAENEMP GLMRMRERYS ASKPLKGARI AGCLHMTVET AVLIETLVTL GAEVQWSSCN IFSTQDHAAA AIAKAGIPVY AWKGETDEEY LWCIEQTLYF KDGPLNMILD DGGDLTNLIH TKYPQLLPGI RGISEETTTG VHNLYKMMAN GILKVPAINV NDSVTKSKFD NLYGCRESLI DGIKRATDVM IAGKVAVVAG YGDVGKGCAQ ALRGFGARVI ITEIDPINAL QAAMEGYEVT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

#### **General References**

Hershfield MS, et al. (1978) Science 202(4369):757-60 Gellekink H,et al. (2004) Eur J Hum Genet.. 12(11):942-8.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

