Recombinant human Adenosylhomocysteinase/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

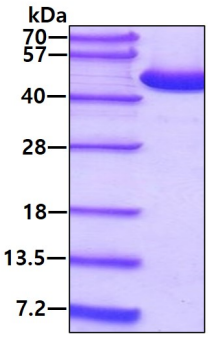
<MGSSHHHHHH SSGLVPRGSH> MSDKLPYKVA DIGLAAWGRK ALDIAENEMP GLMRMRERYS ASKPLKGARI AGCLHMTVET AVLIETLVTL GAEVQWSSCN IFSTQDHAAA AIAKAGIPVY AWKGETDEEY LWCIEQTLYF KDGPLNMILD DGGDLTNLIH TKYPQLLPGI RGISEETTTG VHNLYKMMAN GILKVPAINV NDSVTKSKFD NLYGCRESLI DGIKRATDVM IAGKVAVVAG YGDVGKGCAQ ALRGFGARVI ITEIDPINAL QAAMEGYEVT 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.