

Recombinant Human AHCY, His-tagged

Cat. No. AHCY-31342TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AHCY protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-432aa
Description	S-adenosylhomocysteine hydrolase belongs to the adenosylhomocysteinase family. It catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). Thus, 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol
Molecular Mass	49.8 kDa (452aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSDKLPYKVA DIGLAAWGRK ALDIAENEMP GLMRMRERYS ASKPLKGARI AGCLHMTVET AVLIETLVTLGAEVQWSSCN IFSTQDHAAA AIAKAGIPVY AWKGETDEEY LWCIEQTL YF KDGPLNMILD DGGDLTNLIH TKYPQLLPGI RGISEETTTGVHNL YKMMAN GILKVPAINV

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NDSVTKSKFD NLYGCRESLI DGIK RATDVM IAGKVAVVAG YGDVVGKCAQ
ALRGFGARVI ITEIDPINALQAAMEGYEVT TMDEACQEGN IFVTTTGCID
IILGRHF EQM KDDAIVCNIG HFDVEIDVKW LNENAVEKVN IKPQVD RYRL
KNGRRIIL LAEGRLVNLGCA MGHPSFVMSN SFTNQVMAQI ELWTHPDKYP
VGVHFLPKKL DEAVAEAHLG KLVNKLTKLT EKQAQYLGMS CDGPFKPDHYRY

Purity > 95% by SDS - PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [AHCY adenosylhomocysteinase \[Homo sapiens \(human\) \]](#)

Official Symbol AHCY

Synonyms AHCY; adenosylhomocysteinase; S adenosylhomocysteine hydrolase; SAHH; adoHcyase; S-adenosylhomocysteine hydrolase; S-adenosyl-L-homocysteine hydrolase; NP_000678.1; EC 3.3.1.1; NP_001155238.1

Gene ID [191](#)

mRNA Refseq [NM_000687](#)

Protein Refseq [NP_000678](#)

MIM [180960](#)

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UniProt ID	P23526
Chromosome Location	20q11.22
Pathway	Biological oxidations; deficiency (HMAHCHD); Defective GGT1 causes Glutathionuria (GLUTH)
Function	adenosylhomocysteinase activity; adenyly nucleotide binding; identical protein binding

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