

Active Recombinant Human AHCY Protein, 1-432aa, N-His tagged

Cat. No. AHCY-727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AHCY protein (1-432aa), fused to His-tag at N-terminus, was expressed in E. coli, and purified by using proprietary chromatography techniques. This enzyme is validated for AHCY activity application.
Species	Human
Source	E.coli
ProteinLength	1-432aa
Description	Adenosylhomocysteinase (AHCY) is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (SAH) to adenosine (Ado) and L-homocysteine (Hcy). It regulates the intracellular SAH concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia.
Form	Liquid
Bio-activity	Specific activity is > 300 pmol/min/mg.
Molecular Mass	49.8 kDa (452aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRM RERYSASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQWSSCNIFSTQDHAAAAIA

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KAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGIR
GISEETTTGVHNLKMMANGILKVPAINVND SVTKSKFDNLYGCRESLIDGIK RATDV
MIAGKVAVVAGYGDVGKGCAQALRGFGARVIITEIDPINALQAAMEGYEVTTMDEAC
QEGNIFVTTTGCIDILGRHFEQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNIPQV
DRYRLKNGRRILLAEGRVLNLGCAMGHPSFVMSNSFTNQVMAQIELWTHPKYPV
GVHFLPKKLDEAVAEAHLGKLVKLT KLTEKQAQYLGMSCDGPFPKPDHYRY.

Purity	> 95% by SDS-PAGE
Applications	Enzyme Activity, and protein assay by SDS-PAGE
Storage	Store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay).
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, No DTT.

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;
Gene ID	191
mRNA Refseq	NM_000687

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Protein Refseq	NP_000678
MIM	180960
UniProt ID	P23526

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