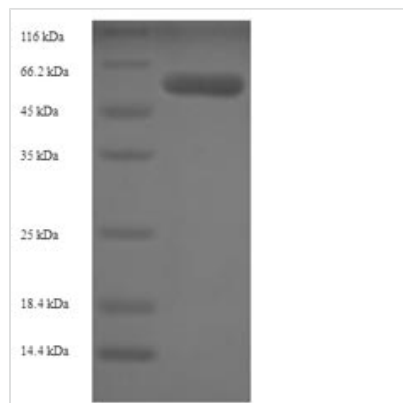




# Recombinant Human Adenosylhomocysteinase (AHCY)

<b>Product Code</b>	CSB-EP001474HU
<b>Relevance</b>	Adenosylhomocysteine is a competitive inhibitor of S-adenosyl-L-methionine-dependent methyl transferase reactions; therefore adenosylhomocysteinase may play a key role in the control of methylations via regulation of the intracellular concentration of adenosylhomocysteine.
<b>Abbreviation</b>	Recombinant Human AHCY protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P23526
<b>Alias</b>	S-adenosyl-L-homocysteine hydrolase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	SDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCL HMTVETAVLIETLVTLGAEVQWSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDE EYLWCIEQTLTYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGIRGISEETTTGVHN LYKMMANGILKVPAINVNDSTKSKFDNLYGCRESLIDGIKRATDVMIAQKVAV VAGYGDVGKGCAQALRGFGARVIITEIDPINALQAAMEGYEVTTMDEACQEGN IFVTTTGCIDIILGRHFEQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNIKPQVD RYRLKNGRRRIILLAEGRVLNLGCAMGHPSFVMSNSFTNQVMAQIELWTHPKY PVGVFHFLPKKLDEAVAEHLGKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYR Y
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Target Names</b>	AHCY
<b>Expression Region</b>	2-432aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	63.6kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

Insertion of the gene encoding the Human AHCY protein (2-432aa) into a plasmid vector results in the formation of recombinant plasmid, which is then introduced into e.coli cells. Positive e.coli cells are selected relying on their ability to survive in the presence of a specific antibiotic. The e.coli cells containing the recombinant plasmid are cultured under conditions conducive to the expression of the gene of interest. A N-terminal 6xHis-SUMO tag is attached to the protein. Following expression, the recombinant Human AHCY protein is isolated and purified from the cell lysate through affinity purification. The resultant recombinant Human AHCY protein is analyzed using denaturing SDS-PAGE, revealing a purity greater than 90%.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.