

## Recombinant Mouse Ahcy Protein, His-tagged

Cat. No. Ahcy-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Ahcy (1-432aa), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-432 a.a.
<b>Description</b>	Enables adenosylhomocysteinase activity; copper ion binding activity; and protein self-association. Acts upstream of or within S-adenosylhomocysteine catabolic process. Located in cytosol. Is expressed in several structures, including alimentary system; integumental system; nervous system; respiratory system; and sensory organ. Human ortholog(s) of this gene implicated in hypermethioninemia with deficiency of S-adenosylhomocysteine hydrolase. Orthologous to human AHCY (adenosylhomocysteinase).
<b>Form</b>	Liquid
<b>Molecular Mass</b>	50.2 kDa (456aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHSSGLVPRGSHMGSHMSDKLPYKVADIGLAAWGRKALDIAENEMPG LMRMREMYASASKPLKGARIAGCLHMTVETAVLIETLVALGAEVRWSSCNIFSTQDHA AAAIKAGIPVFAWKGETDEEYLWCIEQTLHFKDGPLNMILDDGGDLTNIHTKYPQL LSGIRGISEETTTGVHNLYKMMSNGILKVPAINVNDVTKSKFDONLYGCRESLIDGIKR

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ATDVMIA GKVA VVAGYGDV GKGCAQALRGFGARVIITEIDPINALQAAMEGYEVTTM  
 DEACKEGNIFVTTTGCVDIILGRHF EQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNI  
 KPQVD RYWLKNGRRIILLAEGR LVNLGCAMGHPSFVMSNSFTNQVMAQIELWTHPD  
 KYPVGVHFLPKKLDEAVAE AHLGKLN VKLTKLTEKQAQYLGM PINGPFPKPDHYRY

**Purity** > 90% by SDS-PAGE

**Applications** SDS-PAGE

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

**Concentration** 0.25 mg/mL (determined by absorbance at 280nm)

**Storage Buffer** 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.2M NaCl, 1mM DTT

## GENE INFORMATION

**Gene Name** *Ahcy* S-adenosylhomocysteine hydrolase [ *Mus musculus* (house mouse) ]

**Official Symbol** *Ahcy*

**Synonyms** *Ahcy*; S-adenosylhomocysteine hydrolase; CuBP; SAHH; AA987153; AL024110; adenosylhomocysteinase; S-adenosyl-L-homocysteine; hydrolase; adoHcyase; liver copper-binding protein; EC 3.3.1.1

**Gene ID** 269378

**mRNA Refseq** NM\_016661

**Protein Refseq** NP\_057870

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UniProt ID

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