

## Active Recombinant Human AHCY protein, His-tagged

**Cat. No.** AHCY-99H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Active Recombinant Human AHCY protein(P23526)(2-432 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 2-432 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | Adenosylhomocysteinase (S-adenosylhomocysteine synthase, S-adenosylhomocysteine hydrolase, adenosylhomocysteine hydrolase, S-adenosylhomocysteinase, SAHase, AdoHcyase, AHCY) is an enzyme that converts S-adenosylhomocysteine to homocysteine and adenosine. The enzyme contains one tightly bound NAD per subunit. Besides, Major Histocompatibility Complex Class I B (MHCB) has been identified as an interactor of AHCY, thus a binding ELISA assay was conducted to detect the interaction of recombinant human AHCY and recombinant human MHCB. Briefly, AHCY were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to MHCB-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-AHCY pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 |

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times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of AHCY and MHCB was shown, and this effect was in a dose dependent manner.

**Molecular Mass** 51.3kDa

**Purity** > 95%

**Storage** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

**Reconstitution** Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name** AHCY adenosylhomocysteinase [ Homo sapiens ]

**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

**Protein Refseq** NP\_000678

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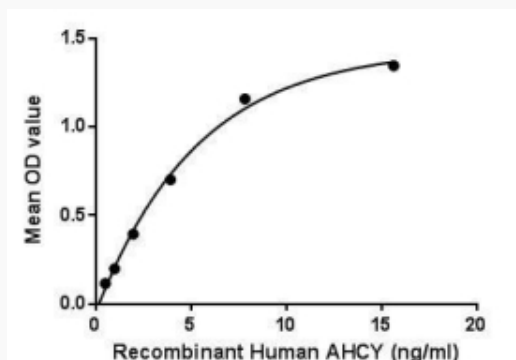
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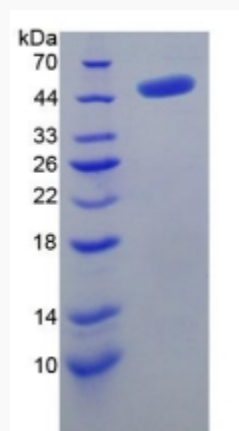
MIM 180960

UniProt ID P23526

Activity



SDS-PAGE



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