

## Recombinant Human AHCYL1, His-tagged

**Cat. No.** AHCYL1-8459H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	AHCY Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 452 amino acids (1-432 a.a.) and having a molecular mass of 49.8 kDa. The AHCY is fused to 20 amino acid His-Tag at N-terminus and purified by chromatogra
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-432 a.a.
<b>Description</b>	AHCY is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). AHCY controls the intracellular S-adenosylhomocysteine (SAH) concentration that is crucial for transmethylation reactions. AHCY deficiency causes hypermethioninemia.
<b>Form</b>	Sterile filtered solution in 20 mM Tris, pH 8 with 10 % glycerol.
<b>Molecular Mass</b>	49.8 kDa
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MSDKLPYKVA DIGLAAWGRK ALDIAENEMP GLMRMRERYASASKPLKGARI AGCLHMTVET AVLIETLVTL GAEVQWSSCN IFSTQDHAAA AIAKAGIPVYAWKGETDEEY LWCIEQTLYF KDGPLNMILD DGGDLTNLIH TKYPQLLPGI RGISEETTTGVHNLYKMMAN GILKVPAINV NDSVTKSKFD NLYGCRESLI DGIKRATDVM IA

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	≥95% by SDS - PAGE
<b>Storage</b>	Store at -20°C. Avoid freeze-thaw cycles.
<b>Shipping</b>	Blue Ice
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	AHCYL1 adenosylhomocysteinase-like 1 [ Homo sapiens ]
<b>Official Symbol</b>	AHCYL1
<b>Synonyms</b>	AHCYL1; adenosylhomocysteinase-like 1; S adenosylhomocysteine hydrolase like 1; putative adenosylhomocysteinase 2; inositol 1; 4; 5 trisphosphate receptor binding protein; IRBIT; XPVKONA; adoHcyase 2; DC-expressed AHCY-like molecule; S-adenosyl-L-homocysteine hydrolase 2; S-adenosyl homocysteine hydrolase homolog; dendritic cell expressed AHCY-like protein; S-adenosylhomocysteine hydrolase-like protein 1; inositol 1,4,5-trisphosphate receptor-binding protein; DCAL; PRO0233;
<b>Gene ID</b>	10768
<b>mRNA Refseq</b>	NM_001242673
<b>Protein Refseq</b>	NP_001229602
<b>MIM</b>	607826
<b>UniProt ID</b>	O43865
<b>Chromosome Location</b>	1p13

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**Pathway**

Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Methionine degradation, organism-specific biosystem; Methionine degradation, conserved biosystem; cysteine biosynthesis III (mammalia), organism-specific biosystem; methionine degradation I (to homocysteine), organism-specific biosystem;

**Function**

adenosylhomocysteinase activity; hydrolase activity;

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