

Recombinant Human AHCYL1, His-tagged

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

SPECIFICATION

Product Overview	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
Species	Human
Source	E.coli
ProteinLength	1-432 a.a.
Description	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.
Form	Sterile filtered solution in 20 mM Tris, pH 8 with 10 % glycerol.
Molecular Mass	49.8 kDa
AA Sequence	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  Fax: 1-631-938-8127

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

Purity	≥95% by SDS - PAGE
Storage	Store at -20°C. Avoid freeze-thaw cycles.
Shipping	Blue Ice
GENE INFORMATION	
Gene Name	AHCYL1 adenosylhomocysteinase-like 1 [Homo sapiens]
Official Symbol	AHCYL1
Synonyms	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;
Gene ID	10768
mRNA Refseq	NM_001242673
Protein Refseq	NP_001229602
MIM	607826
UniProt ID	O43865
Chromosome Location	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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