AHCY Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	AHCY, Blocking Peptide
Full Product Name	AHCY Blocking Peptide
Product Gene Name	AHCY blocking peptide
Product Synonym Names	Adenosylhomocysteinase; AdoHcyase; ahcY; S adenosyl L homocysteine hydrolase; S adenosylhomocysteine hydrolase; S-adenosyl-L-homocysteine hydrolase; SAHH; SAHH_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	AHCY peptide (MBS9626610) is used for blocking the activity of AHCY antibody (MBS9607898)
Molecular Weight	44,659 Da
OMIM	180960
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for AHCY blocking peptide	Blocking/Control
Related Product Information for AHCY blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of AHCY blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AHCY purchase	MBS9626610 is a blocking peptide targeting AHCY.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AHCY. It may not necessarily be applicable to this product.

NCBI GI #	9951915
NCBI GeneID	191
NCBI Accession #	NP_000678.1
UniProt Primary Accession #	P23526
UniProt Secondary Accession #	Q96A36; A8K307; B3KUN3; E1P5P2; F5H737
UniProt Related Accession #	P23526

GenBank Nucleotide #	NM_000687.3
NCBI Official Full Name	adenosylhomocysteinase isoform 1
NCBI Official Synonym Full Names	adenosylhomocysteinase
NCBI Official Symbol	AHCY
NCBI Official Synonym Symbols	SAHH; adoHcyase
UniProt Protein Name	Adenosylhomocysteinase
UniProt Synonym Protein Names	S-adenosyl-L-homocysteine hydrolase
Protein Family	Adenosylhomocysteinase
UniProt Gene Name	AHCY
UniProt Synonym Gene Names	SAHH; AdoHcyase
UniProt Entry Name	SAHH_HUMAN
NCBI Protein Information	adenosylhomocysteinase; S-adenosyl-L-homocysteine hydrolase; S-adenosylhomocysteine hydrolase
NCBI Summary for AHCY	S-adenosylhomocysteine hydrolase belongs to the adenosylhomocysteinase family. It catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). Thus, it regulates the intracellular S-adenosylhomocysteine (SAH) concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]
UniProt Comments for AHCY	SAHH: 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. Defects in AHCY are the cause of hypermethioninemia with S-adenosylhomocysteine hydrolase deficiency (HMAHCHD). A metabolic disorder characterized by hypermethioninemia associated with failure to thrive, mental and motor retardation, facial dysmorphism with abnormal hair and teeth, and myocardiopathy. Belongs to the adenosylhomocysteinase family. Protein type: Other Amino Acids Metabolism - selenoamino acid; EC 3.3.1.1; Hydrolase; Amino Acid Metabolism - cysteine and methionine Chromosomal Location of Human Ortholog: 20q11.22 Cellular Component: neuron projection; cytoplasm; melanosome; nucleus; cytosol Molecular Function: identical protein binding; adenyl nucleotide binding; adenosylhomocysteinase activity Biological Process: methylation; circadian sleep/wake cycle; sulfur amino acid metabolic process; S-adenosylmethionine cycle; xenobiotic metabolic process; response to hypoxia; S-adenosylhomocysteine catabolic process; one-carbon compound metabolic process; chronic inflammatory response to antigenic stimulus; response to nutrient Disease: Hypermethioninemia With S-adenosylhomocysteine Hydrolase Deficiency
Research Articles on AHCY	**1.** S-adenosylhomocysteine hydrolase is regulated by lysine acetylation
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