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

PRODUCT OVERVIEW

Product Name	AASDHPPT, Blocking Peptide
Full Product Name	AASDHPPT Blocking Peptide
Product Gene Name	AASDHPPT blocking peptide
Product Synonym Names	4' phosphopantetheinyl transferase; 4'-phosphopantetheinyl transferase; AASD PPT; AASD-PPT; AASDHPPT; ADPPT_HUMAN; Alpha aminoadipic semialdehyde dehydrogenase phosphopantetheinyl transferase; Alpha-aminoadipic semialdehyde dehydrogenase-phosphopantetheinyl transferase; CGI 80; HAH P; L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase; LYS2; LYS5; LYS5 ortholog
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	AASDHPPT peptide (MBS9624306) is used for blocking the activity of AASDHPPT antibody (MBS9605589)
Molecular Weight	35,776 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (105948292..105969419). Location: 11q22
OMIM	607756
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 AASDHPPT blocking peptide	Blocking/Control
Related Product Information for AASDHPPT 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 AASDHPPT 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 AASDHPPT purchase	MBS9624306 is a blocking peptide targeting AASDHPPT.

ADDITIONAL DETAILS

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

NCBI GI #	20357568
NCBI GeneID	60496

NCBI Accession #	NP_056238.2
UniProt Primary Accession #	Q9NRN7
UniProt Secondary Accession #	Q9C068; Q9P0Q3; Q9UG80; Q9Y389; B2R6D1; B4DDW7
UniProt Related Accession #	Q9NRN7
GenBank Nucleotide #	NM_015423.2
NCBI Official Full Name	L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
NCBI Official Synonym Full Names	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
NCBI Official Symbol	AASDHPPT
NCBI Official Synonym Symbols	LYS2; LYS5; CGI-80; AASD-PPT
UniProt Protein Name	L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
UniProt Synonym Protein Names	4'-phosphopantetheinyl transferase; Alpha-aminoadipic semialdehyde dehydrogenase-phosphopantetheinyl transferase; AASD-PPT; LYS5 ortholog
Protein Family	L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
UniProt Gene Name	AASDHPPT
UniProt Synonym Gene Names	AASD-PPT
UniProt Entry Name	ADPPT_HUMAN
NCBI Protein Information	L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase; LYS5 ortholog; 4'-phosphopantetheinyl transferase; alpha-aminoadipic semialdehyde dehydrogenase-phosphopantetheinyl transferase
NCBI Summary for AASDHPPT	The protein encoded by this gene is similar to Saccharomyces cerevisiae LYS5, which is required for the activation of the alpha-aminoadipate dehydrogenase in the biosynthetic pathway of lysine. Yeast alpha-aminoadipate dehydrogenase converts alpha-biosynthetic-aminoadipate semialdehyde to alpha-aminoadipate. It has been suggested that defects in the human gene result in pipecolic acidemia. [provided by RefSeq, Jul 2008]
UniProt Comments for AASDHPPT	AASDHPPT: Catalyzes the post-translational modification of target proteins by phosphopantetheine. Can transfer the 4'- phosphopantetheine moiety from coenzyme A to a serine residue of a broad range of acceptors, such as the acyl carrier domain of FASN. Belongs to the P-Pant transferase superfamily. AcpS family. Protein type: EC 2.7.8.-; Amino Acid Metabolism - lysine degradation; Transferase; Amino Acid Metabolism - lysine biosynthesis Chromosomal Location of Human Ortholog: 11q22 Cellular Component: cytosol Molecular Function: protein binding; phosphopantetheinyltransferase activity; magnesium ion binding Biological Process: vitamin metabolic process; macromolecule biosynthetic process; pantothenate metabolic process; water-soluble vitamin metabolic process
Research Articles on AASDHPPT	**1.** Our study identifies human PPT as the FDH-modifying enzyme and supports the hypothesis that mammals utilize a single enzyme for all phosphopantetheinylation reactions.
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