Lipoprotein Signal Peptidase (lspA) Rickettsia Bellii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lipoprotein signal peptidase (lspA), Recombinant Protein
Full Product Name	Recombinant Rickettsia bellii Lipoprotein signal peptidase (lspA)
Product Gene Name	lspA recombinant protein
Product Synonym Gene Name	lspA
Product Synonym Names	Recombinant Lipoprotein signal peptidase (lspA); Lipoprotein signal peptidase EC= 3.4.23.36; Prolipoprotein signal peptidase Signal peptidase II; SPase II
Sequence	MILSFKKLYL TFARSSRIII TLVIIDQLTK WWFINNLRWK PGLTLKVTSF LNMVYTWNYG ISFGLMRDYY QYSNIVFLIT NTIIVCYLYY LMMSSKTIGG FAGYSFVIGG AIGNLIDRSF RGAVFDFIHF YYQDYSFPVF NLADCFITLG VIILVEDYYS AKKNIEEKAK ENYDKAQIEA MAEKIRNAPQ GDNDKI
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	22,852 Da
Sequence Positions	1-196
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	NC_009883.1 (457418..458008). Location: country: USA: Franklin Co., Ohio, other: 13-May-1985
3D Structure	ModBase 3D Structure for A8GVJ0
Species	Rickettsia bellii (strain OSU 85-389)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lspA recombinant protein	MBS1228950 is a recombinant protein targeting lspA. Also known as Recombinant Rickettsia bellii Lipoprotein signal peptidase (lspA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lspA recombinant protein 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.

ADDITIONAL DETAILS

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

NCBI GI #	157826840
NCBI GeneID	5646094
NCBI Accession #	YP_001495904.1
UniProt Primary Accession #	A8GVJ0

UniProt Related Accession #	ZP_01379702
GenBank Nucleotide #	NC_009883.1
NCBI Official Full Name	lipoprotein signal peptidase
NCBI Official Symbol	lspA
UniProt Protein Name	Lipoprotein signal peptidase
UniProt Synonym Protein Names	Prolipoprotein signal peptidase; Signal peptidase II
Protein Family	Lipoprotein signal peptidase
UniProt Gene Name	lspA
UniProt Synonym Gene Names	SPase II
UniProt Entry Name	LSPA_RICB8
NCBI Protein Information	lipoprotein signal peptidase
UniProt Comments for lspA	Function: This protein specifically catalyzes the removal of signal peptides from prolipoproteins By similarity. HAMAP-Rule MF_00161 Catalytic activity: Release of signal peptides from bacterial membrane prolipoproteins. Hydrolyzes -Xaa-Yaa-Zaa-|-(S,diacylglyceryl)Cys-, in which Xaa is hydrophobic (preferably Leu), and Yaa (Ala or Ser) and Zaa (Gly or Ala) have small, neutral side chains. HAMAP-Rule MF_00161 Pathway: Protein modification; lipoprotein biosynthesis (signal peptide cleavage). HAMAP-Rule MF_00161 Subcellular location: Cell inner membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_00161. Sequence similarities: Belongs to the peptidase A8 family.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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