Elongation Factor 4 (Lepa), Partial (lepA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Elongation factor 4 (lepA), partial, Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Elongation factor 4 (lepA), partial
Product Gene Name	lepA recombinant protein
Product Synonym Gene Name	lepA; BU260
Product Synonym Names	Elongation factor 4; EF-4; EC=3.6.5.n1; Ribosomal back-translocase LepA
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	68,635 Da
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.
3D Structure	ModBase 3D Structure for P57348
Species	Buchnera aphidicola subsp. Acyrthosiphon pisum (strain APS) (Acyrthosiphon pisum symbiotic bacterium)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lepA recombinant protein	MBS1164485 is a recombinant protein targeting lepA. Also known as Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Elongation factor 4 (lepA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lepA 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 lepA. It may not necessarily be applicable to this product.

NCBI GI #	15616871
NCBI GeneID	1109699
NCBI Accession #	NP_240084.1
UniProt Primary Accession #	P57348
UniProt Related Accession #	P57348
GenBank Nucleotide #	NC_002528.1
NCBI Official Full Name	GTP-binding protein LepA
NCBI Official Symbol	lepA

UniProt Protein Name	Elongation factor 4
UniProt Synonym Protein Names	Ribosomal back-translocase LepA
Protein Family	Elongation factor
UniProt Gene Name	lepA
UniProt Synonym Gene Names	EF-4
UniProt Entry Name	LEPA_BUCAI
NCBI Protein Information	GTP-binding protein LepA
UniProt Comments for lepA	Required for accurate and efficient protein synthesis under certain stress conditions. May act as a fidelity factor of the translation reaction, by catalyzing a one-codon backward translocation of tRNAs on improperly translocated ribosomes. Back-translocation proceeds from a post-translocation (POST) complex to a pre-translocation (PRE) complex, thus giving elongation factor G a second chance to translocate the tRNAs correctly. Binds to ribosomes in a GTP-dependent manner.
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