Elongation Factor 4 (lepA) Dinoroseobacter Shibae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Elongation factor 4 (lepA), Recombinant Protein
Full Product Name	Recombinant Dinoroseobacter shibae Elongation factor 4 (lepA), partial
Product Gene Name	lepA recombinant protein
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	66,857 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 A8LR11
Species	Dinoroseobacter shibae (strain DFL 12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lepA recombinant protein	MBS1228893 is a recombinant protein targeting lepA. Also known as Recombinant Dinoroseobacter shibae 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 #	501128509
NCBI Accession #	WP_012177486.1
UniProt Primary Accession #	A8LR11
GenBank Nucleotide #	WP_012177486.1
NCBI Official Full Name	elongation factor 4
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 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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