Chaperone Protein Clpb (clpB) Rickettsia Bellii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chaperone protein ClpB (clpB), Recombinant Protein
Full Product Name	Recombinant Rickettsia bellii Chaperone protein ClpB (clpB), partial
Product Gene Name	clpB recombinant protein
Product Synonym Gene Name	clpB
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	95,940 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 Q1RGR1
Species	Rickettsia bellii (strain RML369-C)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for clpB recombinant protein	MBS1347664 is a recombinant protein targeting clpB. Also known as Recombinant Rickettsia bellii Chaperone protein ClpB (clpB), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of clpB 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 clpB. It may not necessarily be applicable to this product.

NCBI GI #	499797288
NCBI Accession #	WP_011478022.1
UniProt Primary Accession #	Q1RGR1
GenBank Nucleotide #	WP_011478022.1
NCBI Official Full Name	chaperone protein ClpB
UniProt Protein Name	Chaperone protein ClpB
Protein Family	Caseinolytic peptidase B protein
UniProt Gene Name	clpB

UniProt Comments for clpB	Part of a stress-induced multi-chaperone system, it is involved in the recovery of the cell from heat-induced damage, in cooperation with DnaK, DnaJ and GrpE. Acts before DnaK, in the processing of protein aggregates. Protein binding stimulates the ATPase activity; ATP hydrolysis unfolds the denatured protein aggregates, which probably helps expose new hydrophobic binding sites on the surface of ClpB-bound aggregates, contributing to the solubilization and refolding of denatured protein aggregates by DnaK ().
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