Protein Grpe (grpE) Borrelia Hermsii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein grpE (grpE), Recombinant Protein
Full Product Name	Recombinant Borrelia hermsii Protein grpE (grpE)
Product Gene Name	grpE recombinant protein
Sequence	MEEKKRCEES EKIKEQENET LPNEDSPSMG KKVAELENEI SNLKDLYLRK QAEFENFRKR LEKDKENFIK FANENIMKDI INFLDNLERA IDSSKQSKDF DTLLSGISMI ESEVLSSFDK KYNLKKFGKP GEDFDPSQHE AISIEEKEGV KTPEIVEVYQ KGYCYNNRVL RTAKVKVAQS KN
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	21,229 Da
Sequence Positions	1-182, Full length protein
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 B2S0M1
Species	Borrelia hermsii (strain DAH)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for grpE recombinant protein	MBS1240390 is a recombinant protein targeting grpE. Also known as Recombinant Borrelia hermsii Protein grpE (grpE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of grpE 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 grpE. It may not necessarily be applicable to this product.

NCBI GI #	501390713
NCBI Accession #	WP_012422279.1
UniProt Primary Accession #	B2S0M1
GenBank Nucleotide #	WP_012422279.1
NCBI Official Full Name	nucleotide exchange factor GrpE
UniProt Protein Name	Protein GrpE
UniProt Synonym Protein Names	HSP-70 cofactor

Protein Family	Protein
UniProt Gene Name	grpE
UniProt Comments for grpE	Participates actively in the response to hyperosmotic and heat shock by preventing the aggregation of stress-denatured proteins, in association with DnaK and GrpE. It is the nucleotide exchange factor for DnaK and may function as a thermosensor. Unfolded proteins bind initially to DnaJ; upon interaction with the DnaJ-bound protein, DnaK hydrolyzes its bound ATP, resulting in the formation of a stable complex. GrpE releases ADP from DnaK; ATP binding to DnaK triggers the release of the substrate protein, thus completing the reaction cycle. Several rounds of ATP-dependent interactions between DnaJ, DnaK and GrpE are required for fully efficient folding.
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