Chaperone Protein Dnaj (dnaJ) Clostridium Perfringens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chaperone protein DnaJ (dnaJ), Recombinant Protein
Full Product Name	Recombinant Clostridium perfringens Chaperone protein DnaJ (dnaJ)
Product Gene Name	dnaJ recombinant protein
Product Synonym Gene Name	dnaJ
Sequence	MAKRDYYEVL GLQKGASDDE IKRAFRKMAM KYHPDRNPGD KEAEENFKEV NEAYDVLKDP DKKAKYDQFG HAAFDGSGGF GGGGFGGFDA GGFDFSEMGG FGDIFESFFG GGFGGGSSRR RNAPQRGADL EYRLNITFEE AVFGCEKEIS ITRTENCETC HGTGAKAGTS PKTCPKCNGS GQIRVQRQTP LGSFVSTTTC DQCGGTGKVI EDPCPDCKGK GTVRKNRKIT VKIPAGVDTG NIIPLRGQGE QGANNGPAGD LYIRVNVAPS KIFRREGSDI YYDYKISMAK AALGAEITVP TVDGNVKYKV PAGTQPGTKF RLKGKGVPHV NGGGRGNQYV HMVVEVPKHL NKEQEEALKA FMKASGESVD DIDEKDEGFF SKFKKKK
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	41,877 Da
Sequence Positions	1-387, 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 Q8XIT1
Species	Clostridium perfringens
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dnaJ recombinant protein	MBS1470893 is a recombinant protein targeting dnaJ. Also known as Recombinant Clostridium perfringens Chaperone protein DnaJ (dnaJ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dnaJ 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 dnaJ. It may not necessarily be applicable to this product.

NCBI GI #	489546512
NCBI Accession #	WP_003451159.1
UniProt Primary Accession #	Q8XIT1
GenBank Nucleotide #	WP_003451159.1

NCBI Official Full Name	molecular chaperone DnaJ
UniProt Protein Name	Chaperone protein DnaJ
Protein Family	Chaperone protein
UniProt Gene Name	dnaJ
UniProt Comments for dnaJ	Participates actively in the response to hyperosmotic and heat shock by preventing the aggregation of stress-denatured proteins and by disaggregating proteins, also in an autonomous, DnaK-independent fashion. 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. Also involved, together with DnaK and GrpE, in the DNA replication of plasmids through activation of initiation proteins.
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