# Chaperone Protein Dnaj (dnaJ) Brucella Melitensis Biotype 1 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Chaperone protein DnaJ (dnaJ), Recombinant Protein |
| **Full Product Name** | Recombinant Brucella melitensis biotype 1 Chaperone protein DnaJ (dnaJ) |
| **Product Gene Name** | dnaJ recombinant protein |
| **Product Synonym Gene Name** | dnaJ |
| **Sequence** | MKIDYYEALG VTRTADDKTL KAAFRKLAMQ YHPDRNPDDP EAERKFKEIG EAYETLKDPQ KRAAYDRFGH AAFENGGMGG GFGNGFGGAG GFADIFEDIF GEMMGGGRRR SNGGRERGAD LRYNMEVTLE EAYAGKTAQI RVPTSITCDE CSGSGAKPGS QPTTCTMCSG SGRVRAAQGF FSVERTCPGC NGRGQIIKDP CEKCHGQGRV TQERSLSVNI PAGIEDGTRI RLAGEGEAGL RGGPAGDLYI FLSVKPHEFF QRDGADLYCK VPISMTTAAL GGQFEVSTLD GTQTRVKVPE GTQNGKQFRL KGKGMPVLRQ SVTGDLYIQI DIETPQNLSK RQRELLEEFE KLSSQENSPK SAGFFSRMKE FFEGIGE |
| **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** | 41,078 Da |
| **Sequence Positions** | 1-377, Full length |
| **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 Q8YE77 |
| **Species** | Brucella melitensis biotype 1 (strain 16M / 23456 / 10094) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for dnaJ recombinant protein** | MBS1311053 is a recombinant protein targeting dnaJ. Also known as Recombinant Brucella melitensis biotype 1 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.

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| **NCBI GI #** | 490822474 |
| **NCBI Accession #** | WP_004684564.1 |
| **UniProt Primary Accession #** | Q8YE77 |
| **GenBank Nucleotide #** | WP_004684564.1 |

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| **NCBI Official Full Name** | MULTISPECIES: 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. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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