Small Heat Shock Protein Ibpa (ibpA) Shigella Sonnei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Small heat shock protein ibpA (ibpA), Recombinant Protein
Full Product Name	Recombinant Shigella sonnei Small heat shock protein ibpA (ibpA)
Product Gene Name	ibpA recombinant protein
Product Synonym Gene Name	ibpA
Sequence	MRNFDLSPLY RSAIGFDRLF NHLENNQSQS NGGYPPYNVE LVDENHYRIA IAVAGFAESE LEITAQDNLL VVKGAHADEQ KERTYLYQGI AERNFERKFQ LAENIHVRGA NLVNGLLYID LERVIPEAKK PRRIEIN
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	15,774 Da
Sequence Positions	1-137, 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 Q3YWC5
Species	Shigella sonnei (strain Ss046)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ibpA recombinant protein	MBS1454885 is a recombinant protein targeting ibpA. Also known as Recombinant Shigella sonnei Small heat shock protein ibpA (ibpA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ibpA 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 ibpA. It may not necessarily be applicable to this product.

NCBI GI #	447166181
NCBI Accession #	WP_001243437.1
UniProt Primary Accession #	Q3YWC5
GenBank Nucleotide #	WP_001243437.1
NCBI Official Full Name	MULTISPECIES: heat-shock protein IbpA
UniProt Protein Name	Small heat shock protein IbpA

UniProt Synonym Protein Names	16 kDa heat shock protein A
Protein Family	Adenosine monophosphate-protein transferase and cysteine protease
UniProt Gene Name	ibpA
UniProt Comments for ibpA	Associates with aggregated proteins, together with IbpB, to stabilize and protect them from irreversible denaturation and extensive proteolysis during heat shock and oxidative stress. Aggregated proteins bound to the IbpAB complex are more efficiently refolded and reactivated by the ATP-dependent chaperone systems ClpB and DnaK/DnaJ/GrpE. Its activity is ATP-independent.
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