Sigma-K Factor-Processing Regulatory Protein Bofa (bofA) Bacillus Subtilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sigma-K factor-processing regulatory protein BofA (bofA), Recombinant Protein
Full Product Name	Recombinant Bacillus subtilis Sigma-K factor-processing regulatory protein BofA (bofA), partial
Product Gene Name	bofA recombinant protein
Sequence	MEPIFIIGII LGLVILLFLS GSAAKPLKWI GITAVKFVAG ALLLVCVNMF GGSLGIHVPI NLVTTAISGI LGIPGIAALV VIKQFII
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	8,964 Da
Sequence Positions	1-87
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 P24282
Species	Bacillus subtilis (strain 168)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bofA recombinant protein	MBS1158553 is a recombinant protein targeting bofA. Also known as Recombinant Bacillus subtilis Sigma-K factor-processing regulatory protein BofA (bofA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bofA 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 bofA. It may not necessarily be applicable to this product.

NCBI GI #	255767016
NCBI GeneID	937025
NCBI Accession #	NP_387904.2
UniProt Primary Accession #	P24282
UniProt Related Accession #	P24282
GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	sigma-K factor-processing regulator BofA

NCBI Official Symbol	bofA
UniProt Protein Name	Sigma-K factor-processing regulatory protein BofA
UniProt Synonym Protein Names	Bypass-of-forespore protein A
Protein Family	Sigma-K factor-processing regulatory protein
UniProt Gene Name	bofA
NCBI Protein Information	sigma-K factor-processing regulator BofA
UniProt Comments for bofA	Involved in the mediation of the intercompartmental coupling of pro-sigma K processing to events in the forespore. Inhibits SpoIVFB-processing activity until a signal has been received from the forespore. Could inhibit SpoIVFB metalloprotease activity by coordinating a zinc in the SpoIVFB active site, preventing access of a water molecule and the sequence of pro-sigma K, which are necessary for peptide bond hydrolysis to produce sigma-K.
Research Articles on bofA	**1.** The gerT gene is induced late in sporulation under the positive control of the transcription factor sigma(K).
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