Anti-Sigma F Factor (spoIIAB) Clostridium Beijerinckii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anti-sigma F factor (spoIIAB), Recombinant Protein
Full Product Name	Recombinant Clostridium beijerinckii Anti-sigma F factor (spoIIAB)
Product Gene Name	spoIIAB recombinant protein
Sequence	MSDNKMSIEF VSKSENEAFA RVAVAAFVAQ LDPTIDEIND VKTAVSEAVT NSIIHGYENR EDGLVRIEAE INEDQVTIAI IDKGIGIDNI EQAMEPLYTS RPDLERSGMG FTVMETFMDA LEVDSEKGNG TKVVIKKKFN VVS
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	15,747 Da
Sequence Positions	1-143, 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 A6LRL7
Species	Clostridium beijerinckii (strain 51743 / NCIMB 8052) (Clostridium acetobutylicum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for spoIIAB recombinant protein	MBS1236997 is a recombinant protein targeting spoIIAB. Also known as Recombinant Clostridium beijerinckii Anti-sigma F factor (spoIIAB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of spoIIAB 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 spoIIAB. It may not necessarily be applicable to this product.

NCBI GI #	500662875
NCBI Accession #	WP_011968157.1
UniProt Primary Accession #	A6LRL7
GenBank Nucleotide #	WP_011968157.1
NCBI Official Full Name	MULTISPECIES: anti-sigma F factor
UniProt Protein Name	Anti-sigma F factor
UniProt Synonym Protein Names	Stage II sporulation protein AB

Protein Family	Anti-sigma F factor
UniProt Gene Name	spoIIAB
UniProt Comments for spoIIAB	Binds to sigma F and blocks its ability to form an RNA polymerase holoenzyme (E-sigma F). Phosphorylates SpoIIAA on a serine residue. This phosphorylation may enable SpoIIAA to act as an anti-anti-sigma factor that counteracts SpoIIAB and thus releases sigma F from inhibition.
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