# Anti-Sigma F Factor (spoIIAB) Clostridium Perfringens Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Anti-sigma F factor (spoIIAB), Recombinant Protein |
| **Full Product Name** | Recombinant Clostridium perfringens Anti-sigma F factor (spoIIAB) |
| **Product Gene Name** | spoIIAB recombinant protein |
| **Product Synonym Gene Name** | spoIIAB |
| **Sequence** | MDNKMRLEFL AKSENEGFAR VSVSAFIAQL DPTIEELTDI KTAVSEAVTN AIIHGYECDE SKVVIIEASI CEDEISITVE DNGIGIENLE EAREPLYTSK PELERSGMGF TVMETFMDSL EVYSEKDKGT KIIMKKKMNT |
| **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** | 15,666 Da |
| **Sequence Positions** | 1-140, 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 Q0TNR1 |
| **Species** | Clostridium perfringens (strain 13124 / 8237 / Type A) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for spoIIAB recombinant protein** | MBS1333782 is a recombinant protein targeting spoIIAB. Also known as Recombinant Clostridium perfringens 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.

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| **NCBI GI #** | 489546758 |
| **NCBI Accession #** | WP_003451402.1 |
| **UniProt Primary Accession #** | Q0TNR1 |
| **GenBank Nucleotide #** | WP_003451402.1 |
| **NCBI Official Full Name** | anti-sigma F factor |
| **UniProt Protein Name** | Anti-sigma F factor |

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| **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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