Alginate Biosynthesis Protein Algf (algF) Pseudomonas Putida Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alginate biosynthesis protein AlgF (algF), Recombinant Protein
Full Product Name	Recombinant Pseudomonas putida Alginate biosynthesis protein AlgF (algF)
Product Gene Name	algF recombinant protein
Product Synonym Gene Name	algF
Sequence	GADAALYGPS APKGSTFVRL YNATSAPAAA SVGNTQIKQV GAQASSDFSF LPGGDYTAQV GGKSVPVKLA SDKYYTLVNS NSGSPKLIEE PPFKNKQKAL VRVQNLSDQQ LTLKTADGKT EVVKPVAANG RGEREINPVK VNLALYQGDK KVGDVKPVAL ERGEAAVLYV TGSGNALSPV WVTRPVASN
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	22,282 Da
Sequence Positions	27-215, 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 Q88ND4
Species	Pseudomonas putida (strain KT2440)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for algF recombinant protein	MBS1422847 is a recombinant protein targeting algF. Also known as Recombinant Pseudomonas putida Alginate biosynthesis protein AlgF (algF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of algF 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 algF. It may not necessarily be applicable to this product.

NCBI GI #	26988013
NCBI GeneID	1042317
NCBI Accession #	NP_743438.1
UniProt Primary Accession #	Q88ND4
UniProt Related Accession #	Q88ND4
GenBank Nucleotide #	NC_002947.4

NCBI Official Full Name	alginate biosynthesis protein AlgF
NCBI Official Symbol	algF
UniProt Protein Name	Alginate biosynthesis protein AlgF
Protein Family	Alginate biosynthesis protein
UniProt Gene Name	algF
NCBI Protein Information	alginate biosynthesis protein AlgF
UniProt Comments for algF	Together with AlgI and AlgJ, forms an inner membrane complex which probably interacts with the alginate polymerization-transport complex and adds acetyl groups at the O-2 and O-3 positions of mannuronate residues. Acetylation of alginate is important for the architecture of biofilms and increases the ability of alginate to act as a defense barrier ().
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