Tetraacyldisaccharide 4'-Kinase (lpxK) Methylobacillus Flagellatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tetraacyldisaccharide 4'-kinase (lpxK), Recombinant Protein
Full Product Name	Recombinant Methylobacillus flagellatus Tetraacyldisaccharide 4'-kinase (lpxK)
Product Gene Name	lpxK recombinant protein
Product Synonym Gene Name	lpxK
Sequence	MGQSFSRWLE RQWYGHTGWQ LILRPFSWLF YILIALRRLA YRLRLFKSLK LSVPVIIVGN INVGGTGKTP FVIWLVQQLR QNGWYPGIIS RGYGGKSIHT HQVTKDSLPQ EVGDEPVLLV QRTGLPLYVG RKRTRAARHL LRDYPECNLI ISDDGLQHYA LERDMEIVII DGERIFGNGQ LLPAGPLREP SSRLEDVDAV VFNGGPPAAG GYLMQLIPED LRKVSAPQER MALNELIGQH VHAVAGIGNP QRFFGQLEQL GLVVEAHPFP DHHAYTEDDF EFAKDDIVLM TEKDAVKCIA FARENWWFMP ISAEIDRALA EKILARLTRL MEKEI
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	38,111 Da
Sequence Positions	1-335, 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 Q1GZI1
Species	Methylobacillus flagellatus (strain KT / 51484 / DSM 6875)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lpxK recombinant protein	MBS1329753 is a recombinant protein targeting lpxK. Also known as Recombinant Methylobacillus flagellatus Tetraacyldisaccharide 4'-kinase (lpxK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lpxK 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 lpxK. It may not necessarily be applicable to this product.

NCBI GI #	499799576
NCBI Accession #	WP_011480310.1
UniProt Primary Accession #	Q1GZI1
GenBank Nucleotide #	WP_011480310.1
NCBI Official Full Name	tetraacyldisaccharide 4'-kinase

UniProt Protein Name	Tetraacyldisaccharide 4'-kinase
UniProt Synonym Protein Names	Lipid A 4'-kinase
Protein Family	Probable tetraacyldisaccharide 4'-kinase
UniProt Gene Name	lpxK
UniProt Comments for lpxK	Transfers the gamma-phosphate of ATP to the 4'-position of a tetraacyldisaccharide 1-phosphate intermediate (termed DS-1-P) to form tetraacyldisaccharide 1,4'-bis-phosphate (lipid IVA).
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