Tetraacyldisaccharide 4'-Kinase (lpxK) Acidithiobacillus Ferrooxidans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tetraacyldisaccharide 4'-kinase (lpxK), Recombinant Protein
Full Product Name	Recombinant Acidithiobacillus ferrooxidans Tetraacyldisaccharide 4'-kinase (lpxK)
Product Gene Name	lpxK recombinant protein
Product Synonym Gene Name	lpxK; AFE_0489
Product Synonym Names	Tetraacyldisaccharide 4'-kinase; EC=2.7.1.130; Lipid A 4'-kinase
Sequence	MTLRQTLEQQ WQDGGALATA LRPLGALTGK VARWRRRHIQ GRAASIPTIV VGNLGVGGSG KTPLVAALAR QLTVAGWRVA IVSRGYGARP PHWPYRVQRD DSPQQAGDEP LLLAQEQGQT QAVYLCPDRH RAIAAAAADG YNLALLDDGF QHLALQPSLR LLVLSGPRPL GNGHCLPAGP LRECPDAMLH ADALLMDAAA AAAIPERNGP PRFLFRIQPK DLVAVNDPCR SRSLDSLQGQ HVTAVTGIAR PQRFVASLEG LGAIPDPRFF PDHHSFCASD IAHLPRPLVM TAKDAVKCRE FAQADDWTLR IEAELEASSQ PWLEQSLLPW RS
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	36,036 Da
Sequence Positions	1-332aa; 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 B7J512
Species	Acidithiobacillus ferrooxidans (strain 23270 / DSM 14882 / NCIB 8455) (Ferrobacillus ferrooxidans (strain 23270))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lpxK recombinant protein	MBS1163810 is a recombinant protein targeting lpxK. Also known as Recombinant Acidithiobacillus ferrooxidans 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 #	218666200
NCBI GeneID	7135782
NCBI Accession #	YP_002424985.1

UniProt Primary Accession #	B7J512
UniProt Related Accession #	B7J512
GenBank Nucleotide #	NC_011761.1
NCBI Official Full Name	tetraacyldisaccharide 4'-kinase
NCBI Official Symbol	lpxK
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 Synonym Gene Names	AFE_0489
UniProt Entry Name	LPXK_ACIF2
NCBI Protein Information	tetraacyldisaccharide 4'-kinase
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).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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