UDP-3-O-Acylglucosamine N-Acyltransferase (lpxD) Shewanella Denitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-3-O-acylglucosamine N-acyltransferase (lpxD), Recombinant Protein
Full Product Name	Recombinant Shewanella denitrificans UDP-3-O-acylglucosamine N-acyltransferase (lpxD)
Product Gene Name	lpxD recombinant protein
Product Synonym Gene Name	lpxD
Sequence	MKMTLKELGE MLGARVQGNE LLTISSVGTL ESAQTDQLSF LANSKYRSQL ESTQAGAVLL SEKEANNFQG NALIVKDPYV AFARVAQRLD TTPKAAVGIH PSAQIDASAQ IGQGAAIGAN AVIGAGVIIG EHCQIGPGCV IGEHSILGSN TRLWANVTLY HDVHLGQNCI IHSGAVLGSD GFGYANERGT WVKIPQTGGV RIGDNVEIGA NTAVDRGALG HTEIGDGVIL DNQVQIAHNA IIGKHTAIAG GSIIAGSTKL GQYCIVGGNS AIAGHLKIAD GVHVSGGTNV TSEIREPGTY SSATVAVENK LWRRNTVRFR QLDDLFNRVK LLEKQQKTQD
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	35,702 Da
Sequence Positions	1-340, 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 Q12NX7
Species	Shewanella denitrificans (strain OS217 / BAA-1090 / DSM 15013)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lpxD recombinant protein	MBS1431530 is a recombinant protein targeting lpxD. Also known as Recombinant Shewanella denitrificans UDP-3-O-acylglucosamine N-acyltransferase (lpxD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lpxD 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 lpxD. It may not necessarily be applicable to this product.

NCBI GI #	499815273
NCBI Accession #	WP_011496007.1
UniProt Primary Accession #	Q12NX7
GenBank Nucleotide #	WP_011496007.1

NCBI Official Full Name	UDP-3-O-(3-hydroxymyristoyl)glucosamine N-acyltransferase
UniProt Protein Name	UDP-3-O-acylglucosamine N-acyltransferase
Protein Family	UDP-3-O-(3-hydroxymyristoyl)glucosamine N-acyltransferase
UniProt Gene Name	lpxD
UniProt Comments for lpxD	Catalyzes the N-acylation of UDP-3-O-acylglucosamine using 3-hydroxyacyl-ACP as the acyl donor. Is involved in the biosynthesis of lipid A, a phosphorylated glycolipid that anchors the lipopolysaccharide to the outer membrane of the cell.
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