UDP-3-O-Acylglucosamine N-Acyltransferase (lpxD) Nitrobacter Hamburgensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-3-O-acylglucosamine N-acyltransferase (lpxD), Recombinant Protein
Full Product Name	Recombinant Nitrobacter hamburgensis UDP-3-O-acylglucosamine N-acyltransferase (lpxD)
Product Gene Name	lpxD recombinant protein
Product Synonym Gene Name	lpxD
Sequence	MTQPAFFKQP PPLTLVEIAA STGAQLIDAS RGEQRITGLA SLDQAGPMHL TFFDNHKYAA QLAATRAGAC FVSPRFEASV PGHVAVLRSA APFRAFVRIA RDCHADTLRP QSWFDNATIA ASAVVHPSAH LEDAVVVDPL AVIGPGVEIG TGSVIGSGAV IGPGVRIGRN CNVGAGTTIQ VALIGNNVLI HPGCHIGQDG YGFIFFGSEG HVKVPQTGRV LIQNDVEIGA GTTIDRGSLR DTVIGEGTKI DNQVQIGHNV TIGRRCLLAA QIGLAGSLTI GDNVALGAKV GINNHLHIGD GAQVVAMSGV KDDIPPNGRW GGYFAKPTRQ WYRELFAVER LARDGAPNAG SATPDPTDRG A
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	37,628 Da
Sequence Positions	1-361, 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 Q1QMM8
Species	Nitrobacter hamburgensis (strain X14 / DSM 10229)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lpxD recombinant protein	MBS1393807 is a recombinant protein targeting lpxD. Also known as Recombinant Nitrobacter hamburgensis 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 #	499829467
NCBI Accession #	WP_011510201.1
UniProt Primary Accession #	Q1QMM8

GenBank Nucleotide #	WP_011510201.1
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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