# Lipid-A-Disaccharide Synthase (lpxB) Shigella Dysenteriae Serotype 1 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Lipid-A-disaccharide synthase (lpxB), Recombinant Protein |
| **Full Product Name** | Recombinant Shigella dysenteriae serotype 1 Lipid-A-disaccharide synthase (lpxB) |
| **Product Gene Name** | lpxB recombinant protein |
| **Product Synonym Gene Name** | lpxB |
| **Sequence** | MTEQRPLTIA LVAGETSGDI LGAGLIRALK ERVPNARFVG VAGPRMQAEG CEAWYEIEEL AVMGIVEVLG RLRRLLHIHA DLTKRFGELK PDVFVGIDAP DFNITLEGNL KKQGIKTIHY VSPSVWAWRQ KRVFKIGRAT DLVLAFLPFE KAFYDKYNVP CRFIGHTMAD AMPLDPDKNA ARDVLGIPHD THCLALLPGS RGAEVEMLSA DFLKTAQLLR QTYPDLEIVV PLVNAKRREQ FERIKAEVAP DLSVHLLDGM GREAMVASDA ALLASGTAAL ECMLAKCPMV VGYRMKPFTF WLAKLLVKTD YVSLPNLLAG RELVKELLQE ECEPQKLAAA LLPLLANGKT SHAMHDTFRE LHQQIRCNAD EQAAQAVLEL AQ |
| **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** | 42,351 Da |
| **Sequence Positions** | 1-382, 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 Q32JS7 |
| **Species** | Shigella dysenteriae serotype 1 (strain Sd197) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for lpxB recombinant protein** | MBS1328729 is a recombinant protein targeting lpxB. Also known as Recombinant Shigella dysenteriae serotype 1 Lipid-A-disaccharide synthase (lpxB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of lpxB 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 lpxB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446061802 |
| **NCBI GeneID** | 3795731 |
| **NCBI Accession #** | WP_000139657.1 |

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| **UniProt Primary Accession #** | Q32JS7 |
| **UniProt Related Accession #** | Q32JS7 |
| **GenBank Nucleotide #** | WP_000139657.1 |
| **NCBI Official Full Name** | lipid-A-disaccharide synthase |
| **NCBI Official Symbol** | lpxB |
| **UniProt Protein Name** | Lipid-A-disaccharide synthase |
| **Protein Family** | Lipid-A-disaccharide synthase |
| **UniProt Gene Name** | lpxB |
| **NCBI Protein Information** | lipid A biosynthesis, penultimate step |
| **UniProt Comments for lpxB** | Condensation of UDP-2,3-diacylglucosamine and 2,3-diacylglucosamine-1-phosphate to form lipid A disaccharide, a precursor of lipid A, a phosphorylated glycolipid that anchors the lipopolysaccharide to the outer membrane of the cell. |
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