# UDP-3-O-Acylglucosamine N-Acyltransferase (lpxD) Burkholderia Cenocepacia Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | UDP-3-O-acylglucosamine N-acyltransferase (lpxD), Recombinant Protein |
| **Full Product Name** | Recombinant Burkholderia cenocepacia UDP-3-O-acylglucosamine N-acyltransferase (lpxD) |
| **Product Gene Name** | lpxD recombinant protein |
| **Product Synonym Gene Name** | lpxD |
| **Sequence** | MALTLEELVK RFGGEIAGDA QCKVGGLAPL DQAGPQQLAF LANPKYLSQV ESTRAGAVLI APKDLEKLGA AAQGRTAGPR NFIVTPNPYA YFARVAQMFI DLATPPRAAG VHPSATIDPA AKVAATAVIG PHVTIEAGAV IEDGVQLDAN VFVGRGTTIG AGSHFYPNAS VYHGCKVGPR AIVHAGAVIG SDGFGFAPDF VGDGDARTGS WVKIPQVGGV TIGPDVEIGA NTTIDRGAMA DTVIEECVKI DNQVQIGHNC RIGAYTVIAG SAGIAGSTTI GRHCMIGGAA GIAGHVTLGD YVIITAKSGV SKSLPKAGIY TSAFPAVDHG EWNKSAALVR NLDKLRERIK ALEAALAAQG GTDA |
| **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** | 37,152 Da |
| **Sequence Positions** | 1-364, 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 Q1BHH2 |
| **Species** | Burkholderia cenocepacia (strain AU 1054) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for lpxD recombinant protein** | MBS1403462 is a recombinant protein targeting lpxD. Also known as Recombinant Burkholderia cenocepacia 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.

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| **NCBI GI #** | 499868811 |
| **NCBI Accession #** | WP_011549545.1 |
| **UniProt Primary Accession #** | Q1BHH2 |

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| **GenBank Nucleotide #** | WP_011549545.1 |
| **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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