# Prolipoprotein Diacylglyceryl Transferase (lgt) Streptococcus Pyogenes Serotype M5 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Prolipoprotein diacylglyceryl transferase (lgt), Recombinant Protein |
| **Full Product Name** | Recombinant Streptococcus pyogenes serotype M5 Prolipoprotein diacylglyceryl transferase (lgt) |
| **Product Gene Name** | lgt recombinant protein |
| **Product Synonym Gene Name** | lgt |
| **Product Synonym Names** | Recombinant Prolipoprotein diacylglyceryl transferase (lgt); Prolipoprotein diacylglyceryl transferase EC= 2.4.99.- |
| **Sequence** | MINPIALKCG PLAIHWYALC ILSGLVLAVY LASKEAPKKG ISSDAIFDFI LIAFPLAIVG ARIYYVIFEW SYYVKHLDEI IAIWNGGIAI YGGLITGALV LLAYCYNKVL NPIHFLDIAA PSVMVAQAIG RWGNFINQEA YGKAVSQLNY LPSFIQKQMF IEGSYRIPTF LYESLWNLLG FVIIMMWRRK PKSLLDGEIF AFYLIWYGSG RLVIEGMRTD SLMFLGIRIS QYVSALLIII GLIFVIKRRR QKGISYYQE |
| **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 degree C. For extended storage, store at -20 or -80 degree C. |
| **Molecular Weight** | 29,420 Da |
| **Sequence Positions** | 1-259 |
| **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. |
| **Chromosome Location** | NC_009332.1 (1366165..1366944, complement) |
| **3D Structure** | ModBase 3D Structure for A2RFS5 |
| **Species** | Streptococcus pyogenes serotype M5 (strain Manfredo) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for lgt recombinant protein** | MBS1232608 is a recombinant protein targeting lgt. Also known as Recombinant Streptococcus pyogenes serotype M5 Prolipoprotein diacylglyceryl transferase (lgt). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of lgt 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 lgt. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 139474201 |
| **NCBI GeneID** | 4963666 |
| **NCBI Accession #** | YP_001128917.1 |

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| **UniProt Primary Accession #** | A2RFS5 |
| **UniProt Related Accession #** | A2RFS5 |
| **GenBank Nucleotide #** | NC_009332.1 |
| **NCBI Official Full Name** | prolipoprotein diacylglyceryl transferase |
| **NCBI Official Symbol** | lgt |
| **UniProt Protein Name** | Prolipoprotein diacylglyceryl transferase |
| **Protein Family** | Prolipoprotein diacylglyceryl transferase |
| **UniProt Gene Name** | lgt |
| **UniProt Entry Name** | LGT_STRPG |
| **NCBI Protein Information** | prolipoprotein diacylglyceryl transferase |
| **UniProt Comments for lgt** | Function: Transfers the N-acyl diglyceride group on what will become the N-terminal cysteine of membrane lipoproteins<br><br>By similarity. HAMAP-Rule MF_01147<br><br>Pathway: Protein modification; lipoprotein biosynthesis (diacylglyceryl transfer). HAMAP-Rule MF_01147<br><br>Subcellular location: Cell membrane; Multi-pass membrane protein<br><br>By similarity HAMAP-Rule MF_01147.<br><br>Sequence similarities: Belongs to the lgt family. |
| **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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