GDP-Mannose:glycolipid 4-Beta-D-Mannosyltransferase (gumI) Xanthomonas Campestris Pv. Campestris Recombinant Protein

PRODUCT OVERVIEW

Product Name	GDP-mannose:glycolipid 4-beta-D-mannosyltransferase (gumI), Recombinant Protein
Full Product Name	Recombinant Xanthomonas campestris pv. campestris GDP-mannose:glycolipid 4-beta-D-mannosyltransferase (gumI)
Product Gene Name	gumI recombinant protein
Product Synonym Gene Name	gumI
Sequence	APRITVLFST EKPNANTNPY LTQLYDALPD AVQPRFFSMR EALLSRYDVL HLHWPEYLLR HPSKMGTLAK QACAALLLMK LQLTGTPVVR TLHNLAPHED RGWRERALLR WIDQLTRRWI RINATTPVRP PFTDTILHGH YRDWFATMEQ STTLPGRLLH FGLIRPYKGV EVLLDVMRDV QDPRLSLRIV GNPATPXMRT LVETACAQDA RISALLAYVE EPVLAREVSA CELVVLPYKQ MHNSGTLLLA LSLARPVLAP WSESNAAIAD EVGPGWVFLY EGEFDAALLS GMLDQVRAAP RGPAPDLSQR DWPRIGQLHY RTYLEALGKD GDAAL
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	39,089 Da
Sequence Positions	15-349, 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 Q56775
Species	Xanthomonas campestris pv. campestris
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gumI recombinant protein	MBS1479057 is a recombinant protein targeting gumI. Also known as Recombinant Xanthomonas campestris pv. campestris GDP-mannose:glycolipid 4-beta-D-mannosyltransferase (gumI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gumI 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 gumI. It may not necessarily be applicable to this product.

NCBI GI #	357580530
NCBI Accession #	Q56775.2
UniProt Primary Accession #	Q56775

NCBI Official Full Name	GDP-mannose:glycolipid 4-beta-D-mannosyltransferase
UniProt Protein Name	GDP-mannose:glycolipid 4-beta-D-mannosyltransferase
UniProt Synonym Protein Names	GlcA-beta-(1->2)-D-Man-alpha-(1->3)-D-Glc-beta-(1->4)-D-Glc-alpha-1-diphosphoundecaprenol 4-beta-mannosyltransferase
Protein Family	GDP-mannose:glycolipid 4-beta-D-mannosyltransferase
UniProt Gene Name	gumI
UniProt Comments for gumI	Nonprocessive beta-mannosyltransferase that catalyzes the transfer of a mannose residue from GDP-mannose to glucuronic acid-beta-1,2-mannose-alpha-1,3-glucose-beta-1,4-glucose-PP-polyisoprenyl to form the lipid-linked pentasaccharide repeating unit of xanthan, Man-GlcA-Man-Glc2-PP-Pol. Is involved in the biosynthesis of the exopolysaccharide xanthan. To a lesser extent, can also use ADP-Man and even GDP-Glc as sugar donor substrates in vitro. Is unable to transfer a Man residue to the free-tetrasaccharide GlcA-Man-Glc2 used as an acceptor, which indicates that the diphosphate group and the lipid moiety in the acceptor substrate are of major importance for acceptor binding and catalysis.
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