Monofunctional Glycosyltransferase (Mgt) (SaurJH1_1962) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Monofunctional glycosyltransferase (mgt) (SaurJH1_1962), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus Monofunctional glycosyltransferase (mgt)
Product Gene Name	SaurJH1_1962 recombinant protein
Product Synonym Gene Name	mgt
Product Synonym Names	Recombinant Monofunctional glycosyltransferase (mgt); Monofunctional glycosyltransferase; MGT EC= 2.4.-.-; Peptidoglycan TGase
Sequence	MKRSDRYSNS NEHFEHMKHE PHYNTYYQPV GKPPKKKKSK RILLKILLTI LIIIALFIGI MYFLSTRDNV DELRKIENKS SFVSADNVPE YVKGAFISME DERFYNHHGF DLKGTTRALF STISDRDVQG GSTITQQVVK NYFYDNDRSF TRKVKELFVA HRVEKQYNKN EILSFYLNNI YFGDNQYTLE GAANHYFGTT VNKNSTTMSH ITVLQSAILA SKVNAPSVYN INNMSENFTQ RVSTNLEKMK QQNYINETQY QQAMSQLNR
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	31,428 Da
Sequence Positions	1-269
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_009632.1 (2062140..2062949, complement)
3D Structure	ModBase 3D Structure for A6U2X8
Species	Staphylococcus aureus (strain JH1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SaurJH1_1962 recombinant protein	MBS1151423 is a recombinant protein targeting SaurJH1_1962. Also known as Recombinant Staphylococcus aureus Monofunctional glycosyltransferase (mgt). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SaurJH1_1962 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 SaurJH1_1962. It may not necessarily be applicable to this product.

NCBI GI #	150394408
NCBI GeneID	5317664

NCBI Accession #	YP_001317083.1
UniProt Primary Accession #	A6U2X8
UniProt Related Accession #	EAS53172
GenBank Nucleotide #	NC_009632.1
NCBI Official Full Name	glycosyltransferase
NCBI Official Symbol	SaurJH1_1962
UniProt Protein Name	Monofunctional glycosyltransferase
UniProt Synonym Protein Names	Peptidoglycan TGase
Protein Family	Monofunctional glycosyltransferase
UniProt Gene Name	mgt
UniProt Synonym Gene Names	MGT
UniProt Entry Name	MGT_STAA2
NCBI Protein Information	glycosyltransferase
UniProt Comments for SaurJH1_1962	Function: Involved in the biosynthesis of cell wall peptidoglycan. Responsible for the elongation of the glycan strands using lipid-linked disaccharide-pentapeptide as the substrate By similarity. HAMAP-Rule MF_01434 Pathway: Cell wall biogenesis; peptidoglycan biosynthesis. HAMAP-Rule MF_01434 Subcellular location: Cell membrane; Single-pass membrane protein By similarity HAMAP-Rule MF_01434. Sequence similarities: Belongs to the glycosyltransferase 51 family.
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