Bifunctional Protein Glmu (glmU) Streptococcus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional protein GlmU (glmU), Recombinant Protein
Full Product Name	Recombinant Streptococcus thermophilus Bifunctional protein GlmU (glmU)
Product Gene Name	glmU recombinant protein
Product Synonym Gene Name	glmU
Sequence	MSHYAIILAA GKGTRMKSDL PKVLHKVSGI TMLEHVFRAV SVIEPAKNVT VIGHKAELVR EVLDGQSAFT MQTEQLGTGH AVMMAEEELA GLEGQTLVIA GDTPLITGES LKNLIDFHVN HKNVATILTA TADNPFGYGR IIRNENGEVT KIVEQKDANE FEQQVKEINT GTYVFDNKRL FEALKNINTN NAQGEYYLTD VISIFRENGE KVGAYTLRDF EESLGVNDRV ALATAEDVMR RRINKAHMIN GVTFQNPNAT YIDVDVEIAP DVVIEANVTL KGQTKVGAES VLTNGTYIVD STIGANTVIT NSMIEHSVVE KGATVGPFAH IRPDSMLKEG VHIGNFVEVK GSTIGENTKA GHLTYIGNAE VGSDVNFGAG TITVNYDGQH KFKTQIANNA FIGSNSTLIA PLEIGDNALT AAGSTITDNV PADSVAIGRS RQVNKEGYAI KKPHHPSQQK
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	49,710 Da
Sequence Positions	1-460, 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 Q5M0U2
Species	Streptococcus thermophilus (strain CNRZ 1066)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glmU recombinant protein	MBS1422146 is a recombinant protein targeting glmU. Also known as Recombinant Streptococcus thermophilus Bifunctional protein GlmU (glmU). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glmU 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 glmU. It may not necessarily be applicable to this product.

NCBI GI #	499546199
NCBI Accession #	WP_011226982.1
UniProt Primary Accession #	Q5M0U2
GenBank Nucleotide #	WP_011226982.1

NCBI Official Full Name	bifunctional UDP-N-acetylglucosamine diphosphorylase/glucosamine-1-phosphate N-acetyltransferase GlmU
UniProt Protein Name	Bifunctional protein GlmU
UniProt Synonym Protein Names	N-acetylglucosamine-1-phosphate uridyltransferase
Protein Family	Bifunctional protein
UniProt Gene Name	glmU
UniProt Comments for glmU	Catalyzes the last two sequential reactions in the de novo biosynthetic pathway for UDP-N-acetylglucosamine (UDP-GlcNAc). The C-terminal domain catalyzes the transfer of acetyl group from acetyl coenzyme A to glucosamine-1-phosphate (GlcN-1-P) to produce N-acetylglucosamine-1-phosphate (GlcNAc-1-P), which is converted into UDP-GlcNAc by the transfer of uridine 5-monophosphate (from uridine 5-triphosphate), a reaction catalyzed by the N-terminal domain.
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