# Bifunctional Protein Glmu (glmU) Nitrosomonas Eutropha Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Bifunctional protein GlmU (glmU), Recombinant Protein |
| **Full Product Name** | Recombinant Nitrosomonas eutropha Bifunctional protein GlmU (glmU) |
| **Product Gene Name** | glmU recombinant protein |
| **Product Synonym Gene Name** | glmU |
| **Sequence** | MLQIDVVILA AGMGKRMRST LPKVLHPLAG KPILFHVLDT ARILSPTKIC VIYGHGGELV RQTVGNDPNL IWVKQTQQLG TGHAVKQALP CLGKNGITLV LFGDVPLVKS NTLKSLIDKA CEDSLALLTV ELNDPAGYGR IIRDPKTNRV QAIVEEQDAL PSQKKIREIN TGIMVLPNMY LESWLDRLSN ANTQGEYYLT DIIAMAVNDG VQIETSSPAS DWEVVGVNDK IQLSTLERAH QQDVAKGLME QGVMFADPAR FDVRGQLICG HNVEIDINCV FEGNVRLGDN VKISANCILR NVAISDGSIV HPFSMIEDTE VGKNCRVGPY ARIRPGTQLD DAVHVGNFVE IKNSHIASGS KVNHLSYIGD TEMGRRVNIG AGTITCNYDG AFKHQTIIED DVFIGSDSQL IAPITVAKGS TIGAGSTITR DTPEGQLTLS RIKQISIANW KRPKKNKD |
| **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** | 49,898 Da |
| **Sequence Positions** | 1-458, 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 Q0AJA8 |
| **Species** | Nitrosomonas eutropha (strain C91) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for glmU recombinant protein** | MBS1385445 is a recombinant protein targeting glmU. Also known as Recombinant Nitrosomonas eutropha 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.

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| **NCBI GI #** | 122314648 |
| **NCBI Accession #** | Q0AJA8.1 |
| **UniProt Primary Accession #** | Q0AJA8 |
| **NCBI Official Full Name** | Bifunctional protein GlmU |

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| **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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