Bifunctional Protein Glmu (MMP1076) Methanococcus Maripaludis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional protein GlmU (MMP1076), Recombinant Protein
Full Product Name	Recombinant Methanococcus maripaludis Bifunctional protein GlmU (MMP1076)
Product Gene Name	MMP1076 recombinant protein
Product Synonym Gene Name	MMP1076
Sequence	MDAIILCAGK GTRLHPITES RPKPMIPIAG KPIIEHIIEK IENHVEKIYL IVGYQKEKII DYFKDNPKIE YILQEKQLGT GHAVLTAKNF IKGDFLVLNG DVIFEDSIDE ILNYENAVSL SNVDNPENFG VIELGYDNKI INLLEKPKKE EITSNLINAG IYKLQNSVFG ILENLAPSER GEIELTDALK KLIENGKLHG VELKGYWNDI GHPWDVLSAN NHFLNKIISK VSGKIENTVS ITGNVIIEEG AVIKPNSVIE GPAIIKSGSI VGPLAYVRPN TVLMKNTFVG NSSEIKGSII FENTKIPHLS YVGDSIIGAN CNFGCNTITA NLRFDDKPVI VNIKGKPVKS VRKLGAIIGD CVKTGIQVSF MPGVKIGSNS LIGANCLIDR DIEQESFVYK KDELVITKKR N
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	45,282 Da
Sequence Positions	1-411, 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 Q6LYB5
Species	Methanococcus maripaludis (strain S2 / LL)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MMP1076 recombinant protein	MBS1386041 is a recombinant protein targeting MMP1076. Also known as Recombinant Methanococcus maripaludis Bifunctional protein GlmU (MMP1076). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MMP1076 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 MMP1076. It may not necessarily be applicable to this product.

NCBI GI #	499484380
NCBI Accession #	WP_011171020.1
UniProt Primary Accession #	Q6LYB5
GenBank Nucleotide #	WP_011171020.1

NCBI Official Full Name	glucosamine-1-phosphate N-acetyltransferase
UniProt Protein Name	Bifunctional protein GlmU
UniProt Synonym Protein Names	UDP-N-acetylglucosamine pyrophosphorylase (EC:2.7.7.23)Alternative name(s):N-acetylglucosamine-1-phosphate uridyltransferase
UniProt Gene Name	MMP1076
UniProt Comments for MMP1076	Catalyzes the last two sequential reactions in the de novo biosynthetic pathway for UDP-N-acetyl-glucosamine (UDP-GlcNAc). Responsible for the acetylation of GlcN-1-P to GlcNAc-1-P, and for the uridyl transfer from UTP to GlcNAc-1-P, to produce UDP-GlcNAc and pyrophosphate ().
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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