Glucose-1-Phosphate Adenylyltransferase (glgC) Thiobacillus Denitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glucose-1-phosphate adenylyltransferase (glgC), Recombinant Protein
Full Product Name	Recombinant Thiobacillus denitrificans Glucose-1-phosphate adenylyltransferase (glgC)
Product Gene Name	glgC recombinant protein
Product Synonym Gene Name	glgC
Sequence	MTISKDDQAR LYRYYTEPTL VTELTRKTLA LVLAGGEGSR LKDLTAWRAK PAVPIGGKYR IIDFPLSNCV NSGIRRIGVL TQYKSHSLIR HLQRAWGLMR TEVGEFVEIL PAQQRTHKKE WYQGTADALF QNLDIMQRHH PEYVLVLGGD HVYTMDYTQM LLYHVQTGAD VTVGSVEVPV AEAAAFGVMS VDESLRITEF NEKPREPDSM PGKPGTALVS MGIYVFSKDF LYKALIEDAG ATRSSHDFGK DIIPSSISRA RIMAFPFRDR EGKPGYWRDV GALNCYWQTN MDLCSIEPAL NLYDCEWPIW TYQPQYPPAK FIFDDEGRRG EAIDSLVAGG CVLSGARVKR SVLFFATTVG CSSLVKDSVI LPKVRIGRNC RISCAIIDKG TVIPDGTVIG EDPVEDAKRF HVTPEGIVLV TPRMLGQNIY ARWEDEYDG
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	49,215 Da
Sequence Positions	1-439, Full length
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 Q3SH75
Species	Thiobacillus denitrificans (strain 25259)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glgC recombinant protein	MBS1421103 is a recombinant protein targeting glgC. Also known as Recombinant Thiobacillus denitrificans Glucose-1-phosphate adenylyltransferase (glgC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glgC 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 glgC. It may not necessarily be applicable to this product.

NCBI GI #	499631839
NCBI Accession #	WP_011312573.1
UniProt Primary Accession #	Q3SH75

GenBank Nucleotide #	WP_011312573.1
NCBI Official Full Name	glucose-1-phosphate adenylyltransferase
UniProt Protein Name	Glucose-1-phosphate adenylyltransferase
UniProt Synonym Protein Names	ADP-glucose pyrophosphorylase
Protein Family	Glucose-1-phosphate adenylyltransferase
UniProt Gene Name	glgC
UniProt Synonym Gene Names	ADPGlc PPase
UniProt Comments for glgC	Involved in the biosynthesis of ADP-glucose, a building block required for the elongation reactions to produce glycogen. Catalyzes the reaction between ATP and alpha-D-glucose 1-phosphate (G1P) to produce pyrophosphate and ADP-Glc.
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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