Phosphoribosylformylglycinamidine Synthase 1 (purQ) Thermoanaerobacter Tengcongensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphoribosylformylglycinamidine synthase 1 (purQ), Recombinant Protein
Full Product Name	Recombinant Thermoanaerobacter tengcongensis Phosphoribosylformylglycinamidine synthase 1 (purQ)
Product Gene Name	purQ recombinant protein
Product Synonym Gene Name	purQ; TTE0810
Product Synonym Names	Phosphoribosylformylglycinamidine synthase 1; EC=6.3.5.3; Phosphoribosylformylglycinamidine synthase I; FGAM synthase I
Sequence	MKFAVIVFPG SNCDVDCYYA VKDGLGEGVE YVWHQEKNLS KYDVIMLPGG FSYGDYLRAG AIARFSPVME AVREEAEKGK FIIGICNGFQ ILTEAGLLPG ALRKNEGLKF ICKTVSIIVE NDKTPFTTRL KKGQEILLPI AHGEGNYYVD DKTLKELKGN NQIVFRYKEN INGSVERIAG VINKKGNVLG MMPHPERAYD SLLGNTDGLY ILGSIVDNFV KGGV
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	24,723 Da
Sequence Positions	1-224aa; 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 Q8RBK6
Species	Thermoanaerobacter tengcongensis (strain DSM 15242 / JCM 11007 / NBRC 100824 / MB4) (Caldanaerobacter subterraneus subsp. tengcongensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for purQ recombinant protein	MBS1430734 is a recombinant protein targeting purQ. Also known as Recombinant Thermoanaerobacter tengcongensis Phosphoribosylformylglycinamidine synthase 1 (purQ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of purQ 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 purQ. It may not necessarily be applicable to this product.

NCBI GI #	20807292
NCBI GeneID	996939

NCBI Accession #	NP_622463.1
UniProt Primary Accession #	Q8RBK6
UniProt Related Accession #	Q8RBK6
GenBank Nucleotide #	NC_003869.1
NCBI Official Full Name	phosphoribosylformylglycinamidine synthase I
NCBI Official Symbol	PurL
UniProt Protein Name	Phosphoribosylformylglycinamidine synthase subunit PurQ
UniProt Synonym Protein Names	Formylglycinamide ribonucleotide amidotransferase subunit I; Glutaminase PurQ; Phosphoribosylformylglycinamidine synthase subunit I
Protein Family	Phosphoribosylformylglycinamidine synthase
UniProt Gene Name	purQ
UniProt Synonym Gene Names	FGAM synthase
UniProt Entry Name	PURQ_THETN
NCBI Protein Information	phosphoribosylformylglycinamidine synthase I
UniProt Comments for purQ	Part of the phosphoribosylformylglycinamidine synthase complex involved in the purines biosynthetic pathway. Catalyzes the ATP-dependent conversion of formylglycinamide ribonucleotide (FGAR) and glutamine to yield formylglycinamidine ribonucleotide (FGAM) and glutamate. The FGAM synthase complex is composed of three subunits. PurQ produces an ammonia molecule by converting glutamine to glutamate. PurL transfers the ammonia molecule to FGAR to form FGAM in an ATP-dependent manner. PurS interacts with PurQ and PurL and is thought to assist in the transfer of the ammonia molecule from PurQ to PurL.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/phosphoribosylformylglycinamidine-synthase-1-purq/1430734