Phosphoribosylformylglycinamidine Synthase 1 (purQ) Bacillus Pumilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphoribosylformylglycinamidine synthase 1 (purQ), Recombinant Protein
Full Product Name	Recombinant Bacillus pumilus Phosphoribosylformylglycinamidine synthase 1 (purQ)
Product Gene Name	purQ recombinant protein
Sequence	MKFAVIVLPG SNCDIDMYHA IQDELGEQVE YVWHDETSLD GFDGVLVPGG FSYGDYLRCG AIARFSNIMP AVKKAAAEGK PVLGVCNGFQ ILQELGILPG AMRRNKDLKF ICRPVELIVE NNETQFTSGY QKGESISVPV AHGEGNFYCD EDTLAKLIEN NQIAFTYGDD INGSVNRIAG ITNEEGNVLG MMPHPERAVD SLLGSADGLK LFQSIVKNWR DTHVTTA
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	24,819 Da
Sequence Positions	1-227, 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 A8FAM6
Species	Bacillus pumilus (strain SAFR-032)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for purQ recombinant protein	MBS1242097 is a recombinant protein targeting purQ. Also known as Recombinant Bacillus pumilus 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 #	500857638
NCBI Accession #	WP_012009142.1
UniProt Primary Accession #	A8FAM6
GenBank Nucleotide #	WP_012009142.1
NCBI Official Full Name	phosphoribosylformylglycinamidine synthase subunit PurQ

UniProt Protein Name	Phosphoribosylformylglycinamidine synthase subunit PurQ
UniProt Synonym Protein Names	Formylglycinamide ribonucleotide amidotransferase subunit I
Protein Family	Phosphoribosylformylglycinamidine synthase
UniProt Gene Name	purQ
UniProt Synonym Gene Names	FGAM synthase; FGAR amidotransferase I; FGAR-AT 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.
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