Gamma-Glutamyl Phosphate Reductase (proA) Deinococcus Geothermalis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gamma-glutamyl phosphate reductase (proA), Recombinant Protein
Full Product Name	Recombinant Deinococcus geothermalis Gamma-glutamyl phosphate reductase (proA)
Product Gene Name	proA recombinant protein
Product Synonym Gene Name	proA
Sequence	MTTETLTVRD LGLRARAAAR VLRSLPTARK AAALHAIARE LQAREGVILA ANARDVAAAE AARLPAHMVA RLRLDAASLA AIADDVAAVA QLPDPVGETT PERILPSGIR VSQRRVPLGV LGVIYESRPN VTVDVAALAL MSGNAVILRG GKETVNSNAA LEGAIRAALA SENIPEDAVQ VIRDPARERM LELLRLDDLV DAIIPRGGAG LHRFCVENAT VPVIVGGIGV VHIYLDESFT RDPADVARAV NLIRNAKVQK PSACNALDTL LIHVRALPVL PAIARDLTAH GVTLRADPPA LAALQTAGLE AQAATDADYG TEFLALTASI RTVSGLEEAL DFIAAHGNHT DVILTRDPTQ AERFVQDVDS AAVMVNASPR FNDGGQLGLG AEVAISTQKL HARGPMGLRE LTTTKWVVVG DGQVRE
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	44,863 Da
Sequence Positions	1-426, 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 Q1IZP1
Species	Deinococcus geothermalis (strain DSM 11300)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for proA recombinant protein	MBS1387430 is a recombinant protein targeting proA. Also known as Recombinant Deinococcus geothermalis Gamma-glutamyl phosphate reductase (proA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of proA 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 proA. It may not necessarily be applicable to this product.

NCBI GI #	752549836
NCBI Accession #	WP_041221083.1
UniProt Primary Accession #	Q1IZP1

GenBank Nucleotide #	WP_041221083.1
NCBI Official Full Name	gamma-glutamyl-phosphate reductase
UniProt Protein Name	Gamma-glutamyl phosphate reductase
UniProt Synonym Protein Names	Glutamate-5-semialdehyde dehydrogenase
Protein Family	4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase
UniProt Gene Name	proA
UniProt Synonym Gene Names	GPR; GSA dehydrogenase
UniProt Comments for proA	Catalyzes the NADPH-dependent reduction of L-glutamate 5-phosphate into L-glutamate 5-semialdehyde and phosphate. The product spontaneously undergoes cyclization to form 1-pyrroline-5-carboxylate.
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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