Gamma-Glutamyl Phosphate Reductase 2 (proA2) Bacillus Licheniformis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gamma-glutamyl phosphate reductase 2 (proA2), Recombinant Protein
Full Product Name	Recombinant Bacillus licheniformis Gamma-glutamyl phosphate reductase 2 (proA2)
Product Gene Name	proA2 recombinant protein
Product Synonym Gene Name	proA2
Sequence	MTATSESISA QIEEKAIKAK TAAKSLRLAT EKEKNEALAA LADHLKQNMS YILTENAKDI EAGRKKGYDA AYIDRLSLNE DRVLDFADGL LEVAELDDPV GETLSSWTLD NGLKAEKVSV PLGVIGMIYE ARPNVTVDAT GLALKSGNAI VLKGGSSAIH SNTAIVSVMH QALDSTNIPR DAVQFIESTD RSATKQLFKM KEHIDVLIPR GGGALIQEVV ENATVPVLET GVGNCHIYID READPEKAID VMINAKTDRP AVCNALETLI VHEKWLEENS AALINALNEH GIQVHGDEKA VQMIPGARPA GEADWQNEYL SLDLAVKVAG SLEEACDHIE TYGTKHSEAI ITENPETAKA FLNTVDAAAL YHNASTRFTD GGALGFGAEI GISTQKLHAR GPMGLKELTT CKYIMRGDGH IRR
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	45,601 Da
Sequence Positions	1-423, 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 Q65IS9
Species	Bacillus licheniformis (strain DSM 13 / 14580)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for proA2 recombinant protein	MBS1377782 is a recombinant protein targeting proA2. Also known as Recombinant Bacillus licheniformis Gamma-glutamyl phosphate reductase 2 (proA2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of proA2 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 proA2. It may not necessarily be applicable to this product.

NCBI GI #	489274764
NCBI GeneID	3031437
NCBI Accession #	WP_003182464.1

UniProt Primary Accession #	Q65IS9
UniProt Secondary Accession #	Q62U86
UniProt Related Accession #	Q65IS9
GenBank Nucleotide #	WP_003182464.1
NCBI Official Full Name	MULTISPECIES: gamma-glutamyl-phosphate reductase
NCBI Official Symbol	TRNA_RS32135
UniProt Protein Name	Gamma-glutamyl phosphate reductase 2
UniProt Synonym Protein Names	Glutamate-5-semialdehyde dehydrogenase 2
Protein Family	Gamma-glutamyl phosphate reductase
UniProt Gene Name	proA2
UniProt Synonym Gene Names	GPR 2; GSA dehydrogenase 2
NCBI Protein Information	gamma-glutamyl-phosphate reductase
UniProt Comments for proA2	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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