Glycerol-1-Phosphate Dehydrogenase [NAD (P)+] (egsA) Thermoplasma Acidophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycerol-1-phosphate dehydrogenase [NAD (P)+] (egsA), Recombinant Protein
Full Product Name	Recombinant Thermoplasma acidophilum Glycerol-1-phosphate dehydrogenase [NAD (P)+] (egsA)
Product Gene Name	egsA recombinant protein
Product Synonym Gene Name	egsA
Sequence	MEFQKFRTMH FPRDVYIGHD VLEHIVDVVG ENSRNKNAII VSGDLTYELA GRKVHDLLST YGYEVHVFLA GNANYDTLER IEYESLDIQA GIVIGVGGGA KIDLAKKLAF DRKLPFVSVP TAPSHDGIAS PRASLRRNGI SYSEEGAMPI GVIADTAIMI KAPYRYLAAG AADVISNLSA VKDWKLAHRL KGEEFSSSAA AMSEYSAQEV LSQINEIKKY EESSVWLVTK NILASGTAMA IAGNSRPGSG SEHLFAHALE AAGVENMLHG EMCAMGTVIS MYLHDENWQQ IKEAFDNLGI SIRSRDYGIE DEIVINALRT AHAIRPERYT ILGESDMSYD AAVKALELTG II
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	38,496 Da
Sequence Positions	1-352, 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 Q9HJ16
Species	Thermoplasma acidophilum (strain 25905 / DSM 1728 / JCM 9062 / NBRC 15155 / AMRC-C165)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for egsA recombinant protein	MBS1281003 is a recombinant protein targeting egsA. Also known as Recombinant Thermoplasma acidophilum Glycerol-1-phosphate dehydrogenase [NAD (P)+] (egsA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of egsA 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 egsA. It may not necessarily be applicable to this product.

NCBI GI #	499204025
NCBI Accession #	WP_010901565.1
UniProt Primary Accession #	Q9HJ16
GenBank Nucleotide #	WP_010901565.1

NCBI Official Full Name	glycerol-1-phosphate dehydrogenase
UniProt Protein Name	Glycerol-1-phosphate dehydrogenase [NAD(P)+]
UniProt Synonym Protein Names	Enantiomeric glycerophosphate synthase
Protein Family	Glycerol-1-phosphate dehydrogenase
UniProt Gene Name	egsA
UniProt Synonym Gene Names	G1P dehydrogenase; G1PDH
UniProt Comments for egsA	Catalyzes the NAD(P)H-dependent reduction of dihydroxyacetonephosphate (DHAP or glycerone phosphate) to glycerol 1-phosphate (G1P). The G1P thus generated is used as the glycerophosphate backbone of phospholipids in the cellular membranes of Archaea.
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