Glyceraldehyde-3-Phosphate Dehydrogenase (gap) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glyceraldehyde-3-phosphate dehydrogenase (gap), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii Glyceraldehyde-3-phosphate dehydrogenase (gap)
Product Gene Name	gap recombinant protein
Product Synonym Gene Name	gap; MJ1146
Product Synonym Names	Glyceraldehyde-3-phosphate dehydrogenase; GAPDH; EC=1.2.1.59; NAD(P)-dependent glyceraldehyde-3-phosphate dehydrogenase
Sequence	MPAKVLINGY GSIGKRVADA VSMQDDMEVI GVTKTKPDFE ARLAVEKGYK LFVAIPDNER VKLFEDAGIP VEGTILDIIE DADIVVDGAP KKIGKQNLEN IYKPHKVKAI LQGGEKAKDV EDNFNALWSY NRCYGKDYVR VVSCNTTGLC RILYAINSIA DIKKARIVLV RRAADPNDDK TGPVNAITPN PVTVPSHHGP DVVSVVPEFE GKILTSAVIV PTTLMHMHTL MVEVDGDVSR DDILEAIKKT PRIITVRAED GFSSTAKIIE YGRDLGRLRY DINELVVWEE SINVLENEIF LMQAVHQESI VIPENIDCIR AMLQMEEDNF KSIEKTNKAM GIQ
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	38,102 Da
Sequence Positions	1-343aa; 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 Q58546
Species	Methanocaldococcus jannaschii (strain 43067 / DSM 2661 / JAL-1 / JCM 10045 / NBRC 100440) (Methanococcus jannaschii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gap recombinant protein	MBS1379489 is a recombinant protein targeting gap. Also known as Recombinant Methanocaldococcus jannaschii Glyceraldehyde-3-phosphate dehydrogenase (gap). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gap 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 gap. It may not necessarily be applicable to this product.

NCBI GI #	15669333
NCBI GeneID	1452042

NCBI Accession #	NP_248138.1
UniProt Primary Accession #	Q58546
UniProt Related Accession #	2YYY_B
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	glyceraldehyde-3-phosphate dehydrogenase
NCBI Official Symbol	MJ_1146
UniProt Protein Name	Glyceraldehyde-3-phosphate dehydrogenase
UniProt Synonym Protein Names	NAD(P)-dependent glyceraldehyde-3-phosphate dehydrogenase
Protein Family	Peptidoglycolipid exporter
UniProt Gene Name	gap
UniProt Synonym Gene Names	GAPDH
UniProt Entry Name	G3P_METJA
NCBI Protein Information	glyceraldehyde-3-phosphate dehydrogenase
Research Articles on gap	**1.** GAPDH is stabilized by extensive electrostatic interactions between the C-terminal alpha-helices and various distal loop regions, which are likely to contribute to thermal stability.
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