Probable Glycine Dehydrogenase [Decarboxylating] Subunit 2 (gcvPB) Thermoplasma Volcanium Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB), Recombinant Protein
Full Product Name	Recombinant Thermoplasma volcanium Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB)
Product Gene Name	gcvPB recombinant protein
Product Synonym Gene Name	gcvPB
Sequence	MNFKQAYYEE PIIKDIKSSN TFSLSEQVDE SILPENLKRK DLELPEVSEY DVVRHYTRLS QMNYTVDVGI YPLGSCTMKY NPKFADRVSA IDGFRNIHPF QPENTVQGAL HVMYDLQEYL KKISDMDAVS LQPMAGADGE FTGILIVKKY FEDKGEDRTE IIIPDSAHGT NPASATMGGF DVVEVPSDDK GMVDLEALRA AVSKKTAAFM ITNPNTLGIF EQNIEEIAKI IHNAGALLYY DGANLNAIFG ITSPGLMGFD IVHFNLHKSF ATPHGGGGPG AGPVAVKSFL KDFLPVPIVD FDGNSYRLNY ELKKTIGKVS SFYGSFSILL RAWSYIIRNG DDGLKNVSAR AVLNSNYLKK KLEKYYDIPY YPLKKHEFVL STENTGKRAL DIGKYILDNG IHSPTVYFPL IVKEAMMIEP TETVSKADLD NYADVLIEAL KLSDEELKSR PKNTAVRRID EVKAARDLKL KW
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	52,790 Da
Sequence Positions	1-472, 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 Q97C04
Species	Thermoplasma volcanium (strain 51530 / DSM 4299 / JCM 9571 / NBRC 15438 / GSS1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcvPB recombinant protein	MBS1447666 is a recombinant protein targeting gcvPB. Also known as Recombinant Thermoplasma volcanium Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gcvPB 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 gcvPB. It may not necessarily be applicable to this product.

NCBI GI #	499219016
NCBI Accession #	WP_010916556.1

UniProt Primary Accession #	Q97C04
GenBank Nucleotide #	WP_010916556.1
NCBI Official Full Name	glycine dehydrogenase
UniProt Protein Name	Probable glycine dehydrogenase (decarboxylating) subunit 2
UniProt Synonym Protein Names	Glycine cleavage system P-protein subunit 2
UniProt Gene Name	gcvPB
UniProt Comments for gcvPB	The glycine cleavage system catalyzes the degradation of glycine. The P protein binds the alpha-amino group of glycine through its pyridoxal phosphate cofactor; CO2 is released and the remaining methylamine moiety is then transferred to the lipoamide cofactor of the H protein.
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