Probable Glycine Dehydrogenase [Decarboxylating] Subunit 2 (gcvPB) Thiobacillus Denitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB), Recombinant Protein
Full Product Name	Recombinant Thiobacillus denitrificans Probable glycine dehydrogenase [decarboxylating] subunit 2 (gcvPB)
Product Gene Name	gcvPB recombinant protein
Product Synonym Gene Name	gcvPB
Sequence	MLIFDHSRPG RTAAAQLPAT GGDLGDLPAE LRRKDAPALP EVSELDVVRH YTRLSQKNFS IDTQFYPLGS CTMKYNPRAC NSLAMLPQFL ARHPASPDET GQGFLASMFE LQEMLKDVTG MAGVSMAPMA GAHGEFAGVA MIRAYHDAKG DAARREIIVP DAAHGTNPAT ATMCGYTVKE IPTDATGAVD LAALKAAVGP QTAGLMLTNP STLGVFEKTI AEIQKIVHDA GGLLYYDGAN LNAILGKVRP GDMGFDVIHM NLHKTFSTPH GGGGPGAGPV GVSGRLLPFM PIPLVLNDNG FYRLATEADL PQSIGRMSAN MGNAGVLMRA YVYARLLGRE GMHRVAEYAT LNANYLMAKL REAGFDLAYP TRRASHEFIV TLKKLKDATG VSAMDFAKRL LDYGYHAPTT YFPLLVPECL LIEPTETESR ETLDGFVDAM KTIKHEAETN PDLVKGAPYT LPVRRLDDVK AARELDLAYK PAA
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	52,035 Da
Sequence Positions	1-483, 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 Q3SMC1
Species	Thiobacillus denitrificans (strain 25259)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcvPB recombinant protein	MBS1335640 is a recombinant protein targeting gcvPB. Also known as Recombinant Thiobacillus denitrificans 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 #	499629952
NCBI Accession #	WP_011310686.1

UniProt Primary Accession #	Q3SMC1
GenBank Nucleotide #	WP_011310686.1
NCBI Official Full Name	glycine dehydrogenase (decarboxylating)
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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