Glycine Dehydrogenase [Decarboxylating] (Gcvp), Partial (gcvP) Sinorhizobium Medicae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycine dehydrogenase [decarboxylating] (gcvP), partial, Recombinant Protein
Full Product Name	Recombinant Sinorhizobium medicae Glycine dehydrogenase [decarboxylating] (gcvP), partial
Product Gene Name	gcvP recombinant protein
Product Synonym Gene Name	gcvP; Smed_1182
Product Synonym Names	Glycine dehydrogenase [decarboxylating]; EC=1.4.4.2; Glycine cleavage system P-protein; Glycine decarboxylase
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	104,061 Da
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 A6U8Q3
Species	Sinorhizobium medicae (strain WSM419) (Ensifer medicae)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcvP recombinant protein	MBS1232367 is a recombinant protein targeting gcvP. Also known as Recombinant Sinorhizobium medicae Glycine dehydrogenase [decarboxylating] (gcvP), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. gcvP
Other Notes	Small volumes of gcvP 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 gcvP. It may not necessarily be applicable to this product.

NCBI GI #	150396401
NCBI GeneID	5322029
NCBI Accession #	YP_001326868.1
UniProt Primary Accession #	A6U8Q3
UniProt Related Accession #	A6U8Q3
GenBank Nucleotide #	NC_009636.1
NCBI Official Full Name	glycine dehydrogenase

NCBI Official Symbol	Smed_1182
UniProt Protein Name	Glycine dehydrogenase (decarboxylating)
UniProt Synonym Protein Names	Glycine cleavage system P-protein; Glycine decarboxylase; Glycine dehydrogenase (aminomethyl-transferring)
Protein Family	Glycine dehydrogenase
UniProt Gene Name	gcvP
UniProt Entry Name	GCSP_SINMW
NCBI Protein Information	glycine dehydrogenase
UniProt Comments for gcvP	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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