Probable Glycine Dehydrogenase [Decarboxylating] Subunit 1 (gcvPA) Sphingomonas Wittichii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable glycine dehydrogenase [decarboxylating] subunit 1 (gcvPA), Recombinant Protein
Full Product Name	Recombinant Sphingomonas wittichii Probable glycine dehydrogenase [decarboxylating] subunit 1 (gcvPA)
Product Gene Name	gcvPA recombinant protein
Sequence	MRYLPLTDAD RSAMLARIGA ASIDDLFVDV PEAARLAGPI AGLPAHASEL AVERHMSRLA RRNLSAGEAP FFLGCGAYRH HVPASVDHLI QRGEFLTSYT PYQPEIAQGT LQALFEFQTQ VARLFGCDVA NASMYDGSTA CWEAITMARR VTKRDKAILS AGLHPHYVSL AKTMARFTGD RLDAAIPDLT PGAPGDDMAR LLAAIDGETS CVVVQNPNIL GHVADLSELA ARCHEKGALL VAVVTEPVAL GAIRSPGEMG ADIVVGEGQS IGVGLNFGGP YVGLFACAEK HVRQMPGRLA GVTADADGQR GFVLTLSTRE QHIRREKATS NICTNAGLCA LAFSVHLTLL GETGLRRLAE LNHAGAVAAA ERLAQVPGVE LVNGAFFNEF TLKLPREARP VVRSLADKGI LGGVSLGRLY PGEAALAGGL VVAVTETASA EDVETLAQAL EAEIAA
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	47,981 Da
Sequence Positions	1-456, 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 A5V9T6
Species	Sphingomonas wittichii (strain RW1 / DSM 6014 / JCM 10273)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcvPA recombinant protein	MBS1170342 is a recombinant protein targeting gcvPA. Also known as Recombinant Sphingomonas wittichii Probable glycine dehydrogenase [decarboxylating] subunit 1 (gcvPA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gcvPA 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 gcvPA. It may not necessarily be applicable to this product.

NCBI GI #	500995460
NCBI Accession #	WP_012048904.1
UniProt Primary Accession #	A5V9T6

GenBank Nucleotide #	WP_012048904.1
NCBI Official Full Name	glycine dehydrogenase
UniProt Protein Name	Probable glycine dehydrogenase (decarboxylating) subunit 1
UniProt Synonym Protein Names	Glycine cleavage system P-protein subunit 1
UniProt Gene Name	gcvPA
UniProt Comments for gcvPA	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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