Glycine Reductase Complex Component B Subunit Gamma (grdB) Symbiobacterium Thermophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycine reductase complex component B subunit gamma (grdB), Recombinant Protein
Full Product Name	Recombinant Symbiobacterium thermophilum Glycine reductase complex component B subunit gamma (grdB)
Product Gene Name	grdB recombinant protein
Product Synonym Gene Name	grdB
Sequence	MRIVHYLNQF FGGIGGEEHA GVRPEVRPGP VGPGMALKAA LGDAGEIVAT VICGDSWFNE NLEEAKATVL ALIRQQNPDL VVAGPAFNAG RYGMACGAVA EVVSKELGIP VVTGMFLENP GVEVYRRYAW VVETGNSAAS MRTAIPAMAA LIRRLAAGQE PEPGTYLERG LRVNTFAAER GSARAVEMLV RKLKGEPYTT EYPMPSFDRV PPNPPVKDLS KAKIALVTSG GIVPKGNPDH IESSSASKYG KYYLGDLDDL TAETHQTAHG GYDPTYANAD ADRVLPVDVM RELEREGVIG KLHDYWYATV GNGTSVANAR AYAREIAEDL KKYEVDAVIL TSTUGTCTRC GATMVKEIER AGIPVVHVCT VVPISLTVGA NRIVPAVAIP HPLGNPALPP DEERTLRRRL VMKALQALTT PVDGQTVFE
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	46,050 Da
Sequence Positions	1-429, 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 Q67KE7
Species	Symbiobacterium thermophilum
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for grdB recombinant protein	MBS1342182 is a recombinant protein targeting grdB. Also known as Recombinant Symbiobacterium thermophilum Glycine reductase complex component B subunit gamma (grdB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of grdB 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 grdB. It may not necessarily be applicable to this product.

NCBI GI #	182637570
NCBI Accession #	Q67KE7.2

UniProt Primary Accession #	Q67KE7
NCBI Official Full Name	Glycine reductase complex component B subunit gamma
UniProt Protein Name	Glycine reductase complex component B subunit gamma
UniProt Synonym Protein Names	Selenoprotein PB gamma
Protein Family	Glycine reductase complex
UniProt Gene Name	grdB
UniProt Comments for grdB	In the first step of glycine reductase, the substrate is bound to component PB via a Schiff base intermediate. Then the PB-activated substrate is nucleophilically attacked by the selenol anion of component PA to transform it to a carboxymethylated selenoether and the respective amine. By action of component PC, acetyl phosphate is formed, leaving component PA in its oxidized state. Finally component PA becomes reduced by the thioredoxin system to start a new catalytic cycle of reductive deamination ().
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