6-Phosphogluconate Dehydrogenase, Decarboxylating (gnd) Shigella Dysenteriae Recombinant Protein

PRODUCT OVERVIEW

Product Name	6-phosphogluconate dehydrogenase, decarboxylating (gnd), Recombinant Protein
Full Product Name	Recombinant Shigella dysenteriae 6-phosphogluconate dehydrogenase, decarboxylating (gnd)
Product Gene Name	gnd recombinant protein
Sequence	AVMGRNLALN IESRGYTVSI FNRSREKTEE VIAENPGKKL VPYYTVKEFV ESLETPRRIL LMVKAGAGTD AAIDSLKPYL DKGDIIIDGG NTFFQDTIRR NRELSAEGFN FIGTGVSGGE EGALKGPSIM PGGQKEAYEL VAPILTKIAA VAEDGEPCVT YIGADGAGHY VKMVHNGIEY GDMQLIAEAY SLLKGGLNLS NEELAQTFTE WNNGELSSYL IDITKDIFTK KDEDGNYLVD VILDEAANKG TGKWTSQSAL DLGEPLSLIT ESVFARYISS LKDQRVAASK VLSGPQAQPA GDKAEFIEKV RRALYLGKIV SYAQGFSQLR AASEEYNWDL NYGEIAKIFR AGCIIRAQFL QKITDAYAEN PQIANLLLAP YFKQIADDYQ QALRDVVAYA VQNGIPVPTF AAAVAYYDSY RAAFLPANLI QAQRDYFGAH TYKRI
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	48,882 Da
Sequence Positions	1-445, 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 P41579
Species	Shigella dysenteriae
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gnd recombinant protein	MBS1018286 is a recombinant protein targeting gnd. Also known as Recombinant Shigella dysenteriae 6-phosphogluconate dehydrogenase, decarboxylating (gnd). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gnd 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 gnd. It may not necessarily be applicable to this product.

NCBI GI #	1168240
NCBI Accession #	P41579.1
UniProt Primary Accession #	P41579
NCBI Official Full Name	6-phosphogluconate dehydrogenase, decarboxylating

UniProt Protein Name	6-phosphogluconate dehydrogenase, decarboxylating
Protein Family	6-phosphogluconate dehydrogenase
UniProt Gene Name	gnd
UniProt Comments for gnd	Catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO2, with concomitant reduction of NADP to NADPH.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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