Formate Dehydrogenase, Nitrate-Inducible, Major Subunit (fdnG) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Formate dehydrogenase, nitrate-inducible, major subunit (fdnG), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Formate dehydrogenase, nitrate-inducible, major subunit (fdnG) , partial
Product Gene Name	fdnG recombinant protein
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	112,963 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 P24183
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fdnG recombinant protein	MBS1253854 is a recombinant protein targeting fdnG. Also known as Recombinant Escherichia coli Formate dehydrogenase, nitrate-inducible, major subunit (fdnG) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fdnG 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 fdnG. It may not necessarily be applicable to this product.

NCBI GI #	16129433
NCBI GeneID	946035
NCBI Accession #	NP_415991.1
UniProt Primary Accession #	P24183
UniProt Secondary Accession #	P78261
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	formate dehydrogenase-N, alpha subunit, nitrate-inducible
NCBI Official Symbol	fdnG
NCBI Official Synonym Symbols	ECK1468; JW1470

UniProt Protein Name	Formate dehydrogenase, nitrate-inducible, major subunit
UniProt Synonym Protein Names	Anaerobic formate dehydrogenase major subunit; Formate dehydrogenase-N subunit alpha; FDH-N subunit alpha
Protein Family	Formate dehydrogenase
UniProt Gene Name	fdnG
UniProt Synonym Gene Names	FDH-N subunit alpha
NCBI Protein Information	formate dehydrogenase-N, alpha subunit, nitrate-inducible
NCBI Summary for fdnG	FdnG is the catalytic subunit of formate dehydrogenase-N. [More information is available at EcoCyc: EG11227].
UniProt Comments for fdnG	Formate dehydrogenase allows E.coli to use formate as major electron donor during anaerobic respiration, when nitrate is used as electron acceptor. The alpha subunit FdnG contains the formate oxidation site. Electrons are transferred from formate to menaquinone in the gamma subunit (FdnI), through the 4Fe-4S clusters in the beta subunit (FdnH). Formate dehydrogenase-N is part of a system that generates proton motive force, together with the dissimilatory nitrate reductase (Nar).
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