# Fumarate Reductase Iron-Sulfur Subunit (frdB) Escherichia Coli O157:h7 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Fumarate reductase iron-sulfur subunit (frdB), Recombinant Protein |
| **Full Product Name** | Recombinant Escherichia coli O157:H7 Fumarate reductase iron-sulfur subunit (frdB) |
| **Product Gene Name** | frdB recombinant protein |
| **Sequence** | AEMKNLKIEV VRYNPEVDTA PHSAFYEVPY DATTSLLDAL GYIKDNLAPD LSYRWSCRMA ICGSCGMMVN NVPKLACKTF LRDYTDGMKV EALANFPIER DLVVDMTHFI ESLEAIKPYI IGNSRTADQG TNIQTPAQMA KYHQFSGCIN CGLCYAACPQ FGLNPEFIGP AAITLAHRYN EDSRDHGKKE RMAQLNSQNG VWSCTFVGYC SEVCPKHVDP AAAIQQGKVE SSKDFLIATL KPR |
| **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** | 27,123 Da |
| **Sequence Positions** | 2-244, 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 P0AC49 |
| **Species** | Escherichia coli O157:H7 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for frdB recombinant protein** | MBS1140407 is a recombinant protein targeting frdB. Also known as Recombinant Escherichia coli O157:H7 Fumarate reductase iron-sulfur subunit (frdB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of frdB 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 frdB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15834388 |
| **NCBI GeneID** | 914097 |
| **NCBI Accession #** | NP_313161.1 |
| **UniProt Primary Accession #** | P0AC49 |
| **UniProt Secondary Accession #** | P00364 |

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| **GenBank Nucleotide #** | NC_002695.1 |
| **NCBI Official Full Name** | fumarate reductase iron-sulfur subunit |
| **NCBI Official Symbol** | ECs5134 |
| **UniProt Protein Name** | Fumarate reductase iron-sulfur subunit |
| **Protein Family** | Fumarate reductase |
| **UniProt Gene Name** | frdB |
| **NCBI Protein Information** | fumarate reductase iron-sulfur subunit |
| **UniProt Comments for frdB** | Two distinct, membrane-bound, FAD-containing enzymes are responsible for the catalysis of fumarate and succinate interconversion; the fumarate reductase is used in anaerobic growth, and the succinate dehydrogenase is used in aerobic growth. |
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