# 1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (dxr) Bacillus Cereus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr), Recombinant Protein |
| **Full Product Name** | Recombinant Bacillus cereus 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr) |
| **Product Gene Name** | dxr recombinant protein |
| **Product Synonym Gene Name** | dxr |
| **Sequence** | MKNISLLGAS GSIGTQTLDV LRSHPDQFRL VAFSVGKNID YAVKVIQEFS PQIVSVQREE DVLKLQAVSG NTKIVYGSEG LLEVALHPDA EIVVNAVVGS VGLLPTLRAI EAKKTIGIAN KETLVTAGHL VMEAARKHNV SLLPVDSEHS AIFQCLNGEN EKRISRLIIT ASGGSFRDKT RDELHHVTVE DALRHPNWSM GSKITIDSAT MMNKGLEVIE AHWLFGIPYE QIDVVLHKES IIHSMVEFED RSVMAQLGSP DMRVPIQYAL TYPDRLPLSD TKQLNLWEMG TLHFEKMNQE RFRCLRFAYE AGKTGGSMPA VMNAANEVAV EAFLQKRIGF LTVEDLIEKA MNHHNVIARP SLEEILEIDA TTRRFVMEQI |
| **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** | 42,317 Da |
| **Sequence Positions** | 1-380, Full length |
| **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 Q732P8 |
| **Species** | Bacillus cereus (strain 10987) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for dxr recombinant protein** | MBS1356817 is a recombinant protein targeting dxr. Also known as Recombinant Bacillus cereus 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of dxr 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 dxr. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446713019 |
| **NCBI Accession #** | WP_000790363.1 |
| **UniProt Primary Accession #** | Q732P8 |

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| **GenBank Nucleotide #** | WP_000790363.1 |
| **NCBI Official Full Name** | MULTISPECIES: 1-deoxy-D-xylulose-5-phosphate reductoisomerase |
| **UniProt Protein Name** | 1-deoxy-D-xylulose 5-phosphate reductoisomerase |
| **UniProt Synonym Protein Names** | 1-deoxyxylulose-5-phosphate reductoisomerase |
| **Protein Family** | 1-deoxy-D-xylulose 5-phosphate reductoisomerase |
| **UniProt Gene Name** | dxr |
| **UniProt Synonym Gene Names** | DXP reductoisomerase |
| **UniProt Comments for dxr** | Catalyzes the NADP-dependent rearrangement and reduction of 1-deoxy-D-xylulose-5-phosphate (DXP) to 2-C-methyl-D-erythritol 4-phosphate (MEP). |
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