1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase 2 (dxr2) Bacillus Anthracis Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase 2 (dxr2), Recombinant Protein
Full Product Name	Recombinant Bacillus anthracis 1-deoxy-D-xylulose 5-phosphate reductoisomerase 2 (dxr2)
Product Gene Name	dxr2 recombinant protein
Product Synonym Gene Name	dxr2
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 TKQLNLWEIG TLHFEKMNQE RFRCLRFAYE AGKAGGSMPA VMNAANEVAV EAFLQKRIGF LTVEDLIEKA MNHHNVIARP SLEEILEIDA ATRRFVMEQI
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	42,239 Da
Sequence Positions	1-380, 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 Q81WL4
Species	Bacillus anthracis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dxr2 recombinant protein	MBS1324851 is a recombinant protein targeting dxr2. Also known as Recombinant Bacillus anthracis 1-deoxy-D-xylulose 5-phosphate reductoisomerase 2 (dxr2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dxr2 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 dxr2. It may not necessarily be applicable to this product.

NCBI GI #	30263825
NCBI GeneID	1086817
NCBI Accession #	NP_846202.1

UniProt Primary Accession #	Q81WL4
UniProt Secondary Accession #	Q6HUR5; Q6KNZ6
GenBank Nucleotide #	NC_003997.3
NCBI Official Full Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase
NCBI Official Symbol	dxr2
UniProt Protein Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase 2
UniProt Synonym Protein Names	1-deoxyxylulose-5-phosphate reductoisomerase 2
Protein Family	1-deoxy-D-xylulose 5-phosphate reductoisomerase
UniProt Gene Name	dxr2
UniProt Synonym Gene Names	DXP reductoisomerase 2
NCBI Protein Information	1-deoxy-D-xylulose-5-phosphate reductoisomerase
UniProt Comments for dxr2	Catalyzes the NADP-dependent rearrangement and reduction of 1-deoxy-D-xylulose-5-phosphate (DXP) to 2-C-methyl-D-erythritol 4-phosphate (MEP).
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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