1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (dxr) Chlorobium Tepidum Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr), Recombinant Protein
Full Product Name	Recombinant Chlorobium tepidum 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr)
Product Gene Name	dxr recombinant protein
Product Synonym Gene Name	dxr
Sequence	MKSLSILGST GSIGLSTLDV VRRHPERFSI AALAEGHDVE MLLKQIDEFR PSLVSVRDEA SRERLKGMLG DHKPEILCGL EGAAEVAAVD GADMVVSAIV GAAGLVPTVR AIEAGKDIAL ANKETLVVAG QLVSDLVKKH DVKLLPVDSE HSAIFQSLVG HRTEDIERII LTASGGPFRK TPAEELKNVG PEQALKHPQW SMGAKITIDS ATLMNKGLEV IEAHWLFDMP AEKIGVVVHP QSIIHSMVEY IDGCVIAQLG VPDMRAPIAY ALAWPERCET GIGKLDLTKV ATLTFEEPDM ERFPALRLAF DALKAGQTYP AVLNAANEIA VAAFLDKKIG FTDIAGTVDK TMQAHEAWTP ITLEEYLQAD KWARETARQL IG
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	41,344 Da
Sequence Positions	1-382, 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 Q8KG43
Species	Chlorobium tepidum (strain 49652 / DSM 12025 / TLS)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dxr recombinant protein	MBS1386352 is a recombinant protein targeting dxr. Also known as Recombinant Chlorobium tepidum 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.

NCBI GI #	21672966
NCBI GeneID	1006807
NCBI Accession #	NP_661031.1

UniProt Primary Accession #	Q8KG43
UniProt Related Accession #	Q8KG43
GenBank Nucleotide #	NC_002932.3
NCBI Official Full Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase
NCBI Official Symbol	dxr
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
NCBI Protein Information	1-deoxy-D-xylulose 5-phosphate 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).
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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