1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (dxr) Shewanella Baltica Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr), Recombinant Protein
Full Product Name	Recombinant Shewanella baltica 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr)
Product Gene Name	dxr recombinant protein
Sequence	MQNMVILGAT GSIGASTLSV ISANPLAYSV YGLVANASVD KMLALCVAHK PKVAHMVDEA AAKQLRAVLP ATLNIQVTTG MNDLLGLVTA AEVDTVMAAI VGAAGLVPTL EAVKAGKRVL LANKEALVMS GELFIEATKR SGAVLLPVDS EHNAIFQCLP QEVQANLGRC DLAASGISHI LLTGSGGPFL RSDLATLAAM TPAQACKHPN WSMGPKISVD SATMMNKGLE FIEARWLFNT QAEQLKVVIH PQSVIHSMVQ YRDGSVIAQM GNPDMRTPIA HCMAYPQRIH SGVEPLDFFK VGQLSFYEPD FERFPCLALA MDACAQGQEA TTVLNAANEI AVEAFLQGQI GFTQIAKVNE ACLVTVPKRP MGSIEDILAL DAQTRVYARE TLASIA
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	42,066 Da
Sequence Positions	1-396, 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 B8E7R0
Species	Shewanella baltica (strain OS223)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dxr recombinant protein	MBS1232597 is a recombinant protein targeting dxr. Also known as Recombinant Shewanella baltica 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 #	501583817
NCBI Accession #	WP_012588126.1
UniProt Primary Accession #	B8E7R0
GenBank Nucleotide #	WP_012588126.1

NCBI Official Full Name	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).
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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