1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (dxr) Cyanothece Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr), Recombinant Protein
Full Product Name	Recombinant Cyanothece sp. 1-deoxy-D-xylulose 5-phosphate reductoisomerase (dxr)
Product Gene Name	dxr recombinant protein
Sequence	MKKISLLGST GSIGTQTLDI VNQYPDQFQV VGLATRSNVE LLATQVQQFR PEIVAICDES KLGSLKDAIA SMDYSPLILA GEQGVAEVAR HGDAESVVTG IVGCAGLLPT IAAIEAGKDI ALANKETLIA GGPVVLPLIE KHGVKLLPAD SEHSAIFQCL QGVPDGGLRR IILTASGGAF RDWPVEQLKY VTVQDALKHP NWSMGQKITV DSATLMNKGL EVIEAHFLFG MDYENIDIVI HPQSIIHSLI EVQDTSVLAQ LGWPDMRLPL LYALSWPERI YTDWEQLDLV KAGSLTFREP DHDKYPCMQL AYAAGNAGGA MPAVLNAANE QAVALFLAEK IAFLDIPKVI EKTCDNFRDH NRSQPSLEDI LEADKWAREA VLMAAEGLGT ENKVVSLK
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	43,156 Da
Sequence Positions	1-398, 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 B1WNP5
Species	Cyanothece sp. (strain 51142)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dxr recombinant protein	MBS1159609 is a recombinant protein targeting dxr. Also known as Recombinant Cyanothece sp. 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 #	497232615
NCBI Accession #	WP_009546877.1
UniProt Primary Accession #	B1WNP5
GenBank Nucleotide #	WP_009546877.1

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).
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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