1-Deoxy-D-Xylulose-5-Phosphate Synthase (dxs) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-deoxy-D-xylulose-5-phosphate synthase (dxs), Recombinant Protein
Full Product Name	Recombinant Escherichia coli 1-deoxy-D-xylulose-5-phosphate synthase (dxs)
Product Gene Name	dxs recombinant protein
Sequence	MSFDIAKYPT LALVDSTQEL RLLPKESLPK LCDELRRYLL DSVSRSSGHF ASGLGTVELT VALHYVYNTP FDQLIWDVGH QAYPHKILTG RRDKIGTIRQ KGGLHPFPWR GESEYDVLSV GHSSTSISAG IGIAVAAEKE GKNRRTVCVI GDGAITAGMA FEAMNHAGDI RPDMLVVLND NEMSISENVG ALNNHLAQLL SGKLYSSLRE GGKKVFSGVP PIKELLKRTE EHIKGMVVPG TLFEELGFNY IGPVDGHDVL GLITTLKNMR DLKGPQFLHI MTKKGRGYEP AEKDPITFHA VPKFDPSSGC LPKSSGGLPS YSKIFGDWLC ETAAKDNKLM AITPAMREGS GMVEFSRKFP DRYFDVAIAE QHAVTFAAGL AIGGYKPIVA IYSTFLQRAY DQVLHDVAIQ KLPVLFAIDR AGIVGADGQT HQGAFDLSYL RCIPEMVIMT PSDENECRQM LYTGYHYNDG PSAVRYPRGN AVGVELTPLE KLPIGKGIVK RRGEKLAILN FGTLMPDAAK VAESLNATLV DMRFVKPLDE ALILEMAASH EALVTVEENA IMGGAGSGVN EVLMAHRKPV PVLNIGLPDF FIPQGTQEEM RAELGLDAAG MEAKIKAWLA
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	67,589 Da
Sequence Positions	1-620, 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 B1J029
Species	Escherichia coli (strain 8739 / DSM 1576 / Crooks)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dxs recombinant protein	MBS1129185 is a recombinant protein targeting dxs. Also known as Recombinant Escherichia coli 1-deoxy-D-xylulose-5-phosphate synthase (dxs). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dxs 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 dxs. It may not necessarily be applicable to this product.

NCBI GI #	445928951
NCBI Accession #	WP_000006806.1
UniProt Primary Accession #	B1J029

GenBank Nucleotide #	WP_000006806.1
NCBI Official Full Name	MULTISPECIES: 1-deoxy-D-xylulose-5-phosphate synthase
UniProt Protein Name	1-deoxy-D-xylulose-5-phosphate synthase
UniProt Synonym Protein Names	1-deoxyxylulose-5-phosphate synthase
Protein Family	1-deoxy-D-xylulose-5-phosphate synthase
UniProt Gene Name	dxs
UniProt Synonym Gene Names	DXP synthase; DXPS
UniProt Comments for dxs	Catalyzes the acyloin condensation reaction between C atoms 2 and 3 of pyruvate and glyceraldehyde 3-phosphate to yield 1-deoxy-D-xylulose-5-phosphate (DXP).
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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