Pyridoxine 5'-Phosphate Synthase (pdxJ) Roseobacter Denitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pyridoxine 5'-phosphate synthase (pdxJ), Recombinant Protein
Full Product Name	Recombinant Roseobacter denitrificans Pyridoxine 5'-phosphate synthase (pdxJ)
Product Gene Name	pdxJ recombinant protein
Product Synonym Gene Name	pdxJ; RD1_1362
Product Synonym Names	Pyridoxine 5'-phosphate synthase; PNP synthase; EC=2.6.99.2
Sequence	MSDQKKLRLG VNIDHVATVR NARGGAYPDP LRAARIAEEA GADGITAHLR EDRRHISDAD IEGLMDVLSV PLNFEMAATD EMQQIALRHK PHAVCIVPEK REERTTEGGL EVAREENVLA HFIAPLREAG CRVSIFIAAE QRQIEAAHRI GAEVIELHTG AYCDAHAEGD FAQRDAELAR LRDMATFAHG LGLEVHAGHG LTYDTVQPIA AFPEVIELNI GHFLIGESIF RGLEPAIAEM RRLMDAARA
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	27,341 Da
Sequence Positions	1-249aa; 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 Q16AJ0
Species	Roseobacter denitrificans (strain 33942 / OCh 114) (Erythrobacter sp. (strain OCh 114)) (Roseobacter denitrificans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxJ recombinant protein	MBS1430936 is a recombinant protein targeting pdxJ. Also known as Recombinant Roseobacter denitrificans Pyridoxine 5'-phosphate synthase (pdxJ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pdxJ 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 pdxJ. It may not necessarily be applicable to this product.

NCBI GI #	110678682
NCBI GeneID	4197335
NCBI Accession #	YP_681689.1
UniProt Primary Accession #	Q16AJ0

UniProt Related Accession #	Q16AJ0
GenBank Nucleotide #	NC_008209.1
NCBI Official Full Name	pyridoxine 5'-phosphate synthase
NCBI Official Symbol	pdxJ
UniProt Protein Name	Pyridoxine 5'-phosphate synthase
Protein Family	Pyridoxine 5'-phosphate synthase
UniProt Gene Name	pdxJ
UniProt Synonym Gene Names	PNP synthase
UniProt Entry Name	PDXJ_ROSDO
NCBI Protein Information	pyridoxine 5'-phosphate synthase
UniProt Comments for pdxJ	Catalyzes the complicated ring closure reaction between the two acyclic compounds 1-deoxy-D-xylulose-5-phosphate (DXP) and 3-amino-2-oxopropyl phosphate (1-amino-acetone-3-phosphate or AAP) to form pyridoxine 5'-phosphate (PNP) and inorganic phosphate.
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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