Pyridoxine Kinase (pdxK) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pyridoxine kinase (pdxK), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Pyridoxine kinase (pdxK)
Product Gene Name	pdxK recombinant protein
Sequence	MSSLLLFNDK SRALQADIVA VQSQVVYGSV GNSIAVPAIK QNGLNVFAVP TVLLSNTPHY DTFYGGAIPD EWFSGYLRAL QERDALRQLR AVTTGYMGTA SQIKILAEWL TALRKDHPDL LIMVDPVIGD IDSGIYVKPD LPEAYRQYLL PLAQGITPNI FELEILTGKN CRDLDSAIAA AKSLLSDTLK WVVVTSASGN EENQEMQVVV VTADSVNVIS HSRVKTDLKG TGDLFCAQLI SGLLKGKALT DAVHRAGLRV LEVMRYTQQH ESDELILPPL AEA
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	30,847 Da
Sequence Positions	1-283, 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 B1IX53
Species	Escherichia coli (strain 8739 / DSM 1576 / Crooks)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxK recombinant protein	MBS1262394 is a recombinant protein targeting pdxK. Also known as Recombinant Escherichia coli Pyridoxine kinase (pdxK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pdxK 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 pdxK. It may not necessarily be applicable to this product.

NCBI GI #	446018819
NCBI Accession #	WP_000096674.1
UniProt Primary Accession #	B1IX53
GenBank Nucleotide #	WP_000096674.1
NCBI Official Full Name	MULTISPECIES: pyridoxine kinase
UniProt Protein Name	Pyridoxine/pyridoxal/pyridoxamine kinase

UniProt Synonym Protein Names	B6-vitamer kinase
Protein Family	Putative pyridoxine kinase
UniProt Gene Name	pdxK
UniProt Synonym Gene Names	PN/PL/PM kinase
UniProt Comments for pdxK	B6-vitamer kinase involved in the salvage pathway of pyridoxal 5'-phosphate (PLP). Catalyzes the phosphorylation of pyridoxine (PN), pyridoxal (PL), and pyridoxamine (PM), forming their respective 5'-phosphorylated esters, i.e. PNP, PLP and PMP.
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