# Pyridoxine Kinase (pdxK) Shigella Sonnei Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Pyridoxine kinase (pdxK), Recombinant Protein |
| **Full Product Name** | Recombinant Shigella sonnei Pyridoxine kinase (pdxK) |
| **Product Gene Name** | pdxK recombinant protein |
| **Product Synonym Gene Name** | pdxK |
| **Sequence** | MSSLLLFNDK SRALQADIVA VQSQVVYGSV GNSIAVPAIK QNGLNVFAVP TVLLSNTPHY DTFYGGAIPD EWFSGYLRAL QERDALRQLR AVTTGYMGTA SQIKILAEWL TALRKDHPDL LIMVDPVIGD IDSGIYVKPD LPEAYRQYLL PLAQGITPNI FELEILTGKN CRDLDSAIAA AKSLLSDTLK WVVITSASGN EENQEMQVVV VSADSVNVIS HSRVKTDLKG TGDLFCAQLI SGLLKGKALN 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** | 30,860 Da |
| **Sequence Positions** | 1-283, Full length |
| **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 Q3YZC3 |
| **Species** | Shigella sonnei (strain Ss046) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for pdxK recombinant protein** | MBS1399073 is a recombinant protein targeting pdxK. Also known as Recombinant Shigella sonnei 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.

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| **NCBI GI #** | 446018805 |
| **NCBI Accession #** | WP_000096660.1 |
| **UniProt Primary Accession #** | Q3YZC3 |
| **GenBank Nucleotide #** | WP_000096660.1 |
| **NCBI Official Full Name** | MULTISPECIES: pyridoxine kinase |

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| **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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