

Pyridoxal kinase (PK), Recombinant Protein

Cat RP00055

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg
(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg
Species (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Arabidopsis thaliana (Mouse-ear cress)
Cell)

Full Product Name

Recombinant Arabidopsis thaliana Pyridoxal kinase (PK)

Product Gene Name

PK recombinant protein

Product Synonym Gene Name

PK

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MTTPPVLSLA LPSDTGRVLS IQSHTVQGYV GNKSAVFPLQ LLGYDVDPIN SVQFSNHTGY PTFKGQVLNG
QQLCDLIEGL EANDLLFYTH VLTGYIGSVS FLDTILEVIN KLRSVNPNTL YVCDPVMGDE GKLYVPEELV
HVYREKVVPL ASMLTPNQFE AEKLTGLRIN SEEDGREACA ILHAAGPSKV VITSITIGGI LLLIGSHQKE
KGLKPEQFKI LIHKIPAYFT GTGDLMTALL LGWSNKYPDND LDKAAELAVS TLQALLRRTL DDYKRAGYDP
TSSSLEIRLI QSQEDIRNPK VELKAERYS

Sequence Positions

1-309, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

38,167 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week.
Repeated freezing and thawing is not recommended.

Protein Family

Pyridoxal kinase

NCBI Accession

NP_001078677.1

NCBI GI

145334663

NCBI GenBank Nucleotide

NM_001085208.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI GeneID

833763

NCBI Official Full Name

pfkB-like carbohydrate kinase family protein

NCBI Official Symbol

SOS4

NCBI Official Synonym Symbols

ATSOS4; K18L3.1; K18L3_1; SALT OVERLY SENSITIVE 4

NCBI Protein Information

pfkB-like carbohydrate kinase family protein

NCBI Summary

Encodes a pyridoxal kinase required for root hair development. Mutants are hypersensitive to Na⁺, K⁺ and Li⁺.

UniProt Gene Name

PK

UniProt Synonym Gene Names

PDXK; SOS4

UniProt Protein Name

Pyridoxal kinase

UniProt Synonym Protein Names

Protein SALT OVERLY SENSITIVE 4; Pyridoxal kinase-like protein SOS4; Pyridoxine kinase

UniProt Primary Accession

Q8W1X2

UniProt Secondary Accession

Q94EN4; Q9FKE1

UniProt Related Accession

Q8W1X2

UniProt Comments

Catalyzes the transfer of a phosphate group from ATP to the 5-hydroxymethyl group of pyridoxal to form the biologically active pyridoxal phosphate.

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