

Full-Length

PDXK (Human) Recombinant Protein (P01)

Catalog # H00008566-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PDXK full-length ORF (AAH00123, 1 a.a. - 312 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKGGQVLNSDELQEL
YEGRLNNMNKYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVP
EDLLPVYKEKVPLADIITPNQFEAELLSGRKIHSQEEALRVMDMLHSMGPDVVITSSDLPSPQG
SNYLIVLGSQRRRNPAAGSVVMERIRMDIRKVDVAVFGTGDLFAAMLLAWTHKHPNNLKVACEKTV
STLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDIEDPENVQATVL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.06

Interspecies Antigen Sequence

Mouse (86); Rat (85)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PDXK

Entrez GeneID[8566](#)**GeneBank Accession#**[BC000123](#)**Protein Accession#**[AAH00123](#)**Gene Name**

PDXK

Gene Alias

C21orf124, C21orf97, DKFZp566A071, FLJ31940, FLJ37311, MGC15873, MGC31754, MGC52346, PKH, PNK, PRED79

Gene Description

pyridoxal (pyridoxine, vitamin B6) kinase

Omim ID[179020](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene phosphorylates vitamin B6, a step required for the conversion of vitamin B6 to pyridoxal-5-phosphate, an important cofactor in intermediary metabolism. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq]

Other Designations

pyridoxal kinase|pyridoxamine kinase|pyridoxine kinase|vitamin B6 kinase

Pathway

- [Metabolic pathways](#)
- [Vitamin B6 metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Parkinson Disease](#)