

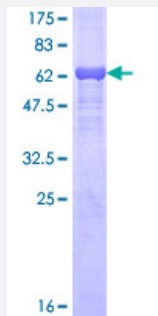
## Full-Length

# PDK4 (Human) Recombinant Protein (P01)

Catalog # H00005166-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human PDK4 full-length ORF ( AAH40239.1, 1 a.a. - 411 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MKAARFVLRSAGSLNGAGLVPREVEHFSRYSPSPLSMKQLLDGSENACERTSFAFLRQELPVR  
LANILKEIDILPTQLVNTSSVQLVKSQYQSLMDLVEFHEKSPDDQKALSDFVDTLIKVRNRHHNVV  
PTMAQGIIIEYKDACTVDPVTNQNLQYFLDRFYMNRISTRMLMNQHILIFSDSQTGNPSHIGSIDPNCD  
VVAVVQDAFECSRMLCDQYYLSSPELKLTVNGKFPDQPIHVYVPSHLHHMLFELFKNAMRATV  
EHQENQPSLTPIEVIVVLGKEDLTIKISDRGGGVPLRIIDRLFSYTYSTAPTPVMDNSRNAPLAGFGY  
GLPISRLYAKYFQGDNLNLYSLSGYGTDAIYMLKALSSIESIEKLPVFNKSAFKHYQMSSEADDWCIPSR  
EPKNLAKEVAM

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

70.95

### 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 — PDK4

**Entrez GeneID** [5166](#)**GeneBank Accession#** [BC040239](#)**Protein Accession#** [AAH40239.1](#)**Gene Name** PDK4**Gene Alias** FLJ40832**Gene Description** pyruvate dehydrogenase kinase, isozyme 4**Omim ID** [602527](#)**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. [provided by RefSeq]

**Other Designations** pyruvate dehydrogenase kinase 4|pyruvate dehydrogenase kinase, isoenzyme 4

## Disease

- [Diabetes Mellitus](#)