

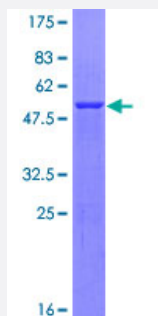
Full-Length

TPK1 (Human) Recombinant Protein (P01)

Catalog # H00027010-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TPK1 full-length ORF (NP_071890.2, 1 a.a. - 243 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEHAFTPLELLSTGNLKYCLVILNQPLDNYFRHLWNKALLRACADGGANRLYDITEGERESFLPE
FINGDFDSIRPEVREYYATKGCELISTPDQDHTDFTKCLKMLQKKIEEKDLKVDVITLGGLAGRFD
QIMASVNTLFQATHITPFPIIIIQEESLIYLLQPGKHLHVDTGMEGDWCGLIPVGQPCMQVTTTGLK
WNLNDVLAFTLVSTSN TYDGSGVTVETDHP LLWTMAKS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

53.7

Interspecies Antigen Sequence

Mouse (89); Rat (86)

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 — TPK1

Entrez GeneID [27010](#)

GeneBank Accession# [NM_022445.3](#)

Protein Accession# [NP_071890.2](#)

Gene Name TPK1

Gene Alias HTPK1, PP20

Gene Description thiamin pyrophosphokinase 1

Omim ID [606370](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein, that exists as a homodimer, which catalyzes the conversion of thiamine to thiamine pyrophosphate. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations placental protein 20|thiamine diphosphokinase|thiamine kinase|thiamine pyrophosphokinase 1

Pathway

- [Metabolic pathways](#)
- [Thiamine metabolism](#)

Disease

- [Birth Weight](#)
- [Kidney Failure](#)
- [Tobacco Use Disorder](#)