

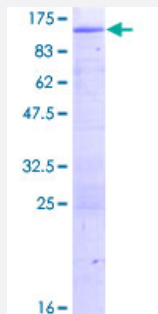
Full-Length

HK3 (Human) Recombinant Protein (P01)

Catalog # H00003101-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HK3 full-length ORF (AAH28129.1, 1 a.a. - 923 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDSIGSSGLRQGEETLSCSEELPGPSDSELVQECLQQFKVTRAQLQQIQASLLGSMEQALRG
QASPAPAVRMLPTYVGSTPHGTEQGDFVVLELGATGASLRVLWVTLTGIEGHRVEPRSQE FVIPQ
EVMLGAGQQLFDFAAHCLSEFLDAQPVNKQGLQLGFSFSPCHQTGLDRSTLISWTKGFRCSGV
EGQDVVQLLRDAIRRGAYNIDVVAVVNDTVGTMMGCEPGVRPCEVGLVVDVTGNACYMEEAR
HVAVLDEDRGRVCVSVIEWGSFSDDGALGPVLTTFDHTLDHESLNPGAQRFEKMIGGLYL GELVR
LVLAHLARCGVLFGGCTSPALLSQGSILLEHVAEMEDPSTGAARVHAILQDLGLSPGASDVELVQ
HVCAAVCTRAAQLCAAALAAVL SCLQHSREQQTLQVAVATGGRVCERHPRFC SVLQGTVMLLA
PECDVSLIPSVDDGGGRGVAMVTAVAARLAHRRLL EETLAPFRLNHDQLAAVQAQMRKAMAKG
LRGEASSLRMLPTFVRATPDGSERGDFLALDLGGTNFRVLLVRVTTGVQITSEIYSIPETVAQGSG
QQLFDHMD CIVDFQKQKQLSGQSLPLGFTFSFPCRQLGLDQGILLNWTKGFKASDCEGQDVVSL
LREAITRRQAVELNVVAI NDTVGTMMSCGYEDPRCEIGLIVGTGNACYMEELRN VAGVPGD SG
RMCINMEWGAFGDDGSLAMLSTRFDASVDQASINPGKQRF EKMI SGMYLGEV RHILLHLTSLGVL
FRGQQIQRLQTRDIFKTKFLSEIESDSLALRQVRAILEDLGLPLTSDDALMVLEV CQAVSQRAAQL
CGAGVA AVVEKIRENRGLEELAVSVGVDGTL YKLHPRFSSLVAATVRELAPRCVV TFLQSEDGS
GKGAALVTAVACRLAQLTRV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

125.4

Interspecies Antigen Sequence

Mouse (85); 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 — HK3

Entrez GeneID[3101](#)**GeneBank Accession#**[BC028129.1](#)**Protein Accession#**[AAH28129.1](#)**Gene Name**

HK3

Gene Alias

HKIII, HXK3

Gene Description

hexokinase 3 (white cell)

Omim ID[142570](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 3. Similar to hexokinases 1 and 2, this allosteric enzyme is inhibited by its product glucose-6-phosphate. [provided by RefSeq]

Other Designations

ATP:D-hexose 6-phosphotransferase|hexokinase 3

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)
- [Streptomycin biosynthesis](#)
- [Type II diabetes mellitus](#)