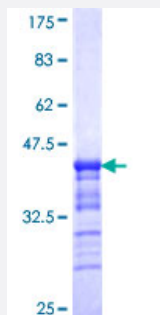


HK3 (Human) Recombinant Protein (Q01)

Catalog # H00003101-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HK3 partial ORF (NP_002106, 1 a.a. - 90 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDSIGSSGLRQGEETLSCSEELPGPSDSSELVQECLQQFKVTRAQLQQIQASLLGSMEQALRG QASPAPAVRMLPTYVGSTPHGTEQGD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.64
Interspecies Antigen Sequence	Mouse (74); Rat (73)
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# [NM_002115](#)

Protein Accession# [NP_002106](#)

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](#)