

Recombinant Full Length Human HK2 Protein, GST-tagged

Cat. No. HK2-3545HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HK2 full-length ORF (NP_000180.2, 1 a.a. - 917 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	917 amino acids
Description	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq
Molecular Mass	128.8 kDa
AA Sequence	MIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATTHP TAAVKMLPTFVRSTPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVEMENQIYAI PEDIMRGSGTQLFDHIAECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSW TKGFKSSGVEGRDVVALIRKAIQRRGDFDIDIVAVVNDTVGTMTCGYDDHNCEIGLI VGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDMG SLNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDI EGEKDGIRKAREVLMRLGLDPTQEDCVATHRICQIVSTRSASLCAATLA AVLQRIKEN

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KGEERLRSTIGVDGSVYKKHPHFAKRLHKTVRRLVPGCDVRFLRSEDGSGKGAAMV
TAVAYRLADQHRARQKTLEHLQLSHDQLLEVKKRMKVEMERGLSKETHASAPVKML
PTYVCATPDGTEKGDFLALDLGGTNFRVLLVRVRNGKWGGVEMHNKIYAIPQEV MH
GTGDELFDHIVQCIADFLEYMGMGVSLPLGFTFSFPCQQNSLDESILLKWTGFKFA
SGCEGEDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMMTCGFEDPHCEVGLIVGTG
SNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDNGCLDDFRTFEDVAVDELSLN
PGKQRF EK MISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRGIFETKFLSQIESDCL
ALLQVRAILQHLGLESTCDDSIIVKEVCTVARRAAQLCGAGMAAVVDRIENRGLDA
LKVTVGVDGTLYKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACR
IREAGQR

Applications

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

Notes

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

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

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

GENE INFORMATION

Gene Name

HK2 hexokinase 2 [Homo sapiens]

Official Symbol

HK2

Synonyms

HK2; hexokinase 2; hexokinase-2; HK II; hexokinase type II; hexokinase-2, muscle;
muscle form hexokinase; HKII; HXK2; DKFZp686M1669;

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Gene ID	3099
mRNA Refseq	NM_000189
Protein Refseq	NP_000180
MIM	601125
UniProt ID	P52789

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