

Recombinant Human HK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HK2-6652H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HK2 MS Standard C13 and N15-labeled recombinant protein (NP_000180) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	1-917 aa
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.
Molecular Mass	102.2 kDa
AA Sequence	MIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATTHP TAAVKMLPTFVRSTPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVEMENQIYAI PEDIMRGSGTQLFDHIAECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSW TKGFKSSGVEGRDVVALIRKAIQRRGDFDIDIVAVVNDTVGTMMTTCGYDDHNCEIGLI VGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDMG SLNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDI

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EGEKDGIRKAREVLMRLGLDPTQEDCVATHRICQIVSTRSASLCAATLAAVLQRIKEN
 KGEERLRSTIGVDGSVYKKHPHFAKRLHKTVRRLVPGCDVRFLRSEDGSGKGAAMV
 TAVAYRLADQHRARQKTLEHLQLSHDQLLEVKRRMKVEMERGLSKETHASAPVKML
 PTYVCATPDGTEKGDFLALDLGGTNFRVLLVRVRNGKWGGVEMHNKIYAIPQEVMMH
 GTGDELFDHIVQCIADFLEYMGMGVSLPLGFTFSFPCQQNSLDESILLKWTGFKFA
 SGCEGEDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMTCGFEDPHCEVGLIVGTG
 SNACYMEEMRNVELVEGEEGRMCVNMWGAFGDNGCLDDFRTEFDVAVDELSLN
 PGKQRFKEMISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRGIFETKFLSQIESDCL
 ALLQVRAILQHLGLESTCDDSIIVKEVCTVVARRAAQLCGAGMAAVVDRIENRGLDA
 LKVTVGVDGTLTKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACR
 IREAGQRTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HK2 hexokinase 2 [Homo sapiens (human)]

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
SDS-PAGE	