

Recombinant Full Length Human hexokinase 2 Protein, His tagged

Cat. No. HK2-41H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Hexokinase 2 (Full Length), fused to His tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-917aa
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.
Tag	N-His
Form	Liquid
Bio-activity	> 12,000 pmol/min/μg. One unit will convert 1pmole of D-Glucose to D-Glucose-6-phosphate per minute at pH8.0 at 37 centigrade.
Molecular Mass	104.1 kDa (937aa)

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AA Sequence

MIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATTHP
 TAAVKMLPTFVVRSTPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVMENQIYAI
 PEDIMRSGGTQLFDHIAECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSW
 TKGFKSSGVEGRDVALIRKAIQRRGDFDIDIVAVVNDTVGTMTCGYDDHNCEIGLI
 VGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDMG
 SLNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDI
 EGEKDGIRKAREVLMRLGLDPTQEDCVATHRICQIVSTRSASLCAATLAAVLQRIKEN
 KGEERLRSTIGVDGSVYKKHPHFAKRLHKTVRRLLVPGCDVRFLRSEDGSGKGAAMV
 TAVAYRLADQHRARQKTLEHLQLSHDQLLEVKRRMKVEMERGLSKETHASAPVKML
 PTYVCATPDGTEKGDFLALDLGGTNFRVLLVVRNGKWGGVEMHNKIYAIPQEVMH
 GTGDELFDHIVQCIADFLEYMGMGVSLPLGFTFSFPCQQNSLDESILLKWTGFKFA
 SGCEGEDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMTCGFEDPHCEVGLIVGTG
 SNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDNGCLDDFRTEFDVAVDELSLN
 PGKQRFKEMISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRGIFETKFLSQIESDCL
 ALLQVRAILQHLGLESTCDDSIIVKEVCTVVARRAAQLCGAGMAAVVDRIENRGLDA
 LKVTVGVDGTYLKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACR
 IREAGQR

Purity > 85% by SDS-PAGE

Applications SDS-PAGE, Enzyme Activity

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/mL (determined by Bradford assay)

Storage Buffer 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Notes For research use only. This product is not intended or approved for human,

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diagnostics or veterinary use.

References

1. Jon E. et al.,(2003) J.Exp Biology. 206 : 2049-2057.
2. Furuta H. et al.,(1996) Genomics. 36(1):206-9.

GENE INFORMATION**Gene Name**

HK2 hexokinase 2 [Homo sapiens (human)]

Official Symbol

HK2

Synonyms

HK2; hexokinase 2; HKII; HXK2; hexokinase-2; hexokinase type II; hexokinase-2, muscle; hexokinase-B; muscle form hexokinase; EC 2.7.1.1

Gene ID

3099

mRNA Refseq

NM_000189

Protein Refseq

NP_000180

MIM


601125

UniProt ID

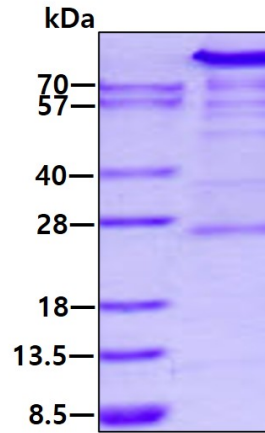
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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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