

# Recombinant Human HK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** HK1-2818H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	HK1 MS Standard C13 and N15-labeled recombinant protein (NP_000179) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific.
<b>Molecular Mass</b>	102.3 kDa
<b>AA Sequence</b>	MIAAQLLAYFYFTELKDDQVKKIDKYLYAMRLSDETLIDIMTRFRKEMKNGLSRDFNPT ATVKMLPTFVRSIPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTP ENIVHGSGSQLFDHVAECLGDFMEKRKIKDKKLPVGFTFSFPCQQSKIDEAILITWTK RFKASGVEGADVVKLLNKAIKKRGDYDANIVAVVNDTVGTMTCGYDDQHCEVGLII GTGTNACYMEELRHIDLVEGDEGRMCINTEWGAFGDDGSLEDIRTEFDREIDRGSL NPGKQLFEKMVSGMYLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEK NKEGLHNAKEILTRLGVPEPSDDDCVSVQHVCTIVSFRSANLVAATLGAILNRLRDNKG

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TPRLRTTVGVDGSLYKTHPQYSRRFHKTLRRLVPSDSDVRFLLESGSGKGAAMVTA  
 VAYRLAEQHRQIEETLAHFHLTKDMLLEVKKRMRAEMELGRKQTHNNAVVKMLPS  
 FVRRTPDGTENGDFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIYAIPIEIMQGTGE  
 ELFDHIVSCISDFLDYMGIKGPRMPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVG  
 HDVVTLLRDAIKRREEFDLDVVAVVNDTVGTMTCAYEEPTCEVGLIVGTGSNACY  
 MEEMKNVEMVEGDQGMCMINMEWGAFGDNGCLDDIRTHYDRLVDEYSLNAGKQR  
 YEKMISGMYLGEIVRNILIDFTKKGFLFRGQISETLKTRGIFETKFLSQIESDRLALLQV  
 RAILQQLGLNSTCDDSIKVTVCVVSRRAAQLCGAGMAAVVDKIRENRGLDRLNVT  
 VGVDGTLYKLHPHFSRIMHQTVKELSPKCNVSFLLSEDGSGKGAALITAVGVRLRTE  
 ASSRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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** HK1 hexokinase 1 [ Homo sapiens (human) ]

**Official Symbol** HK1

**Synonyms** HK1; hexokinase 1; hexokinase-1; HK I; glycolytic enzyme; hexokinase type I; brain form hexokinase; HKI; HXK1; HK1-ta; HK1-tb; HK1-tc;

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Gene ID 3098

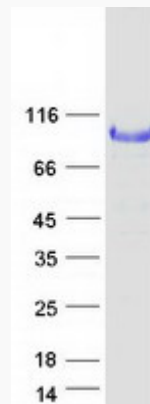
mRNA Refseq NM\_000188

Protein Refseq NP\_000179

MIM 142600

UniProt ID P19367

SDS-PAGE



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