

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

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

SPECIFICATION

Product Overview	HK1 MS Standard C13 and N15-labeled recombinant protein (NP_000179) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	102.3 kDa
AA Sequence	MIAAQLLAYFYTELKDDQVKKIDKLYAMRLSDETLIDIMTRFRKEMKNGLSRDFNPT ATVKMLPTFVRSIPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTP ENIVHSGSGSQLFDHVAECLGDFMEKRIKDKKLPVGFTFSFPCQQSKIDEAILITWTK RFKASGVEGADVVKLLNKAIKKRGDYDANIVAVVNDTVGTMTCGYDDQHCEVGLII GTGTNACYMEELRHIDLVEGDEGRMCINTEWGAFGDDGSLEDIRTEFDREIDRGSL NPGKQLFEKMOVSGMYLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEK NKEGLHNAKEILTRLGVEPSDDDCVSVQHVCIVSFRSANLVAATLGAILNRLRDNKG

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TPRLRTTVGVDGSLYKTHPQYSRRFHKTLRRLVPDSDVRFLLESSESGSGKGAAMVTA
 VAYRLAEQHRQIEETLAHFHLTKDMLLEVKKRMRAEMELGRKQTHNNNAVVKMLPS
 FVRRTPDGTENGDFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIYAIPIEIMQGTGE
 ELFDHIVSCISDFLDYMGIKGPRMPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVG
 HDVVTLLRDAIKRREEFDLDVVAVVNDTVGTMMTCAEYEPTCEVGLIVGTGSNACY
 MEEMKNVEMVEGDQGGQMCINMEWGAFDNGCLDDIRTHYDRLVDEYSLNAGKQR
 YEKMISGMYLGEIVRNILIDFTKKGFLFRGQISETLKTRGIFETKFLSQIESDRLALLQV
 RAILQQLGLNSTCDDSVLKVTVCGVVSRRAAQLCGAGMAAVVDKIRENRGLDRLNVT
 VGVDGTLYKLHPHFSRIMHQTVKELSPKCNVSFLLSEDSGSGKGAALITAVGVRLRTE
 ASSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	