

Recombinant Full Length Human HK1 Protein, GST-tagged

Cat. No. HK1-3543HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HK1 full-length ORF (AAH08730, 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	<p>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.</p> <p>Alternative splicing of this gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein. [provided by RefSeq]</p>
Molecular Mass	126.39 kDa
AA Sequence	<p>MIAAQLLAYFYFTELKDDQVKKIDKYLAMRLSDETLIDIMTRFRKEMKNGLSRDFNPT ATVKMLPTFVRSIPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTP ENIVHGSGSQLFDHVAECLGDFMEKRKIKDKKLPVGFTFSFPCQQSKIDEAILITWTK RFKASGVEGADVVKLLNKAIKKRGDYDANIVAVVNDTVGTMTCGYDDQHCEVGLII</p>

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GTGTNACYMEELRHIDLVEGDEGRMCINTEWGAFGDDGSLEDIRTEFDREIDRGSL
 NPGKQLFEKMYSGMYLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEK
 NKEGLHNAKEILTRLGVEPSDDDCVSVQHVCTIVSFRSANLVAATLGAILNRLRDNKG
 TPLRRTTVGVDGSLYKTHPQYSRRFHKTLRRLVPDSDVRFLLSESGSGKGAAMVTA
 VAYRLAEQHRQIEETLAHFHLTKDMLLEVKKRMRAEMELGRKQTHNNAVVKMLPS
 FVRRTPDGTENGDFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIYAIPIEIMQGTGE
 ELFDHIVSCISDFLDYMGIKGPRMPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVG
 HDVVTLLRDAIKRREEFDLDVVAVVNDTVGTMTCAYEPTCEVGLIVGTGSNACY
 MEEMKNVEMVEGDQGMCMINMEWGAFGDNGCLDDIRTHYDRLVDEYSLNAGKQR
 YEKMISGMYLGEIVRNILIDFTKKGFLFRGQISETLKTRGIFETKFLSQIESDRLALLQV
 RAILQQLGLNSTCDDSILVKTVCVVSRRAAQLCGAGMAAVVDKIRENRGLDRLNVT
 VGVDGTLYKLHPHFSRIMHQTVKELSPKCNVSFLLSEDSGSGKGAALITAVGVRLRTE
 ASS

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	HK1 hexokinase 1 [Homo sapiens]
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;
Gene ID	3098
mRNA Refseq	NM_000188
Protein Refseq	NP_000179
MIM	142600
UniProt ID	P19367

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