

Recombinant Human HK1 Protein, Avi tagged

Cat. No. HK1-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HK1 protein with Avi tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-917 aa
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.
Form	Sterile PBS, pH7.4, 0.1% SKL
Molecular Mass	105 kDa
AASequence	MGSSGLNDIFEAQKIEWHESSGLVPRGSHMIAAQLLAYFTELKDDQVKKIDKYLYA MRLSDETLDIMTRFRKEMKNGLSRDFNPTATVKMLPTFVRSIPDGSEKGDFIALDLG GSSFRILRVQVNHEKNQNVHMESEVYDTPENIVHSGSQLFDHVAECLGDFMEKRK IKDKKLPGVFTFSFPCQQSKIDEAILITWTKRFKASGVEGADVVKLLNKAIKKRGDYDA NIVAVVNDTVGTMTCGYDDQHCEVGLIIGTGTNACYMEELRHIDLVEGDEGRMCIN TEWGAFGDDGSLEDIRTEFDREIDRGS LNPGKQLFEKMVSGMYLGELVRLILVKMAK

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EGLLFEGRITPELLTRGKFNTSDVSAIEKNKEGLHNAKEILTRLGVEPSDDDCVSVQH
 VCTIVSFRSANLVAATLGAILNRLRDNKGTPRLRTTVGVDGSLYKTHPQYSRRFHKTL
 RRLVPDSDVRFLLESSESGSGKGAAMVTAVAYRLAEQHRQIEETLAHFHLTKDMLLEVK
 KRMRAEMELGLRKQTHNNAVVKMLPSFVRRTPDGTENGDFLALDLGGTNFRVLLVK
 IRSGKKRTVEMHNKIYAIPIEQGTGEELFDHIVSCISDFLDYMGIKGPRMPLGFTFS
 FPCQQTSLDAGILITWTKGFKATDCVGHVVTLLRDAIKRREEFDLDVAVVNDTVG
 TMMTCAYEEPTCEVGLIVGTGSNACYMEEMKNVEMVEGDQGQMCINMEWGAFGD
 NGCLDDIRTHYDRLVDEYSLNAGKQRYEKMISGMYLGEIVRNILIDFTKKGFLFRGQI
 SETLKTRGIFETKFLSQIESDRLALLQVRILQQLGLNSTCDDSVLKVTCGVVSRRAA
 QLCGAGMAAVVDKIRENRGLDRLNVTGVDGTLYKLHPHFSRIMHQTVKELSPKCN
 VSFLLSEDGSGKGAALITAVGVRLRTEASS

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.15 mg/mL by BCA

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;

Gene ID 3098

mRNA Refseq NM_000188

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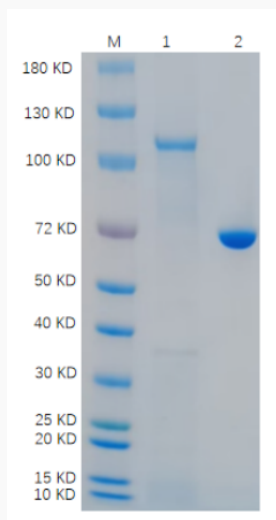
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Protein Refseq NP_000179

MIM 142600

UniProt ID P19367

SDS-PAGE



Reducing 4%-20% SDS-PAGE (CBB stained) analysis profile of purified HK1. 1.

HK1: 1 μ g 2. BSA: 1 μ g

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