

Recombinant Human HK1, GST-tagged

Cat. No. HK1-13806H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HK1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	583-917a.a.
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.</p>
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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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
Chromosome Location	10q22
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Butirosin and neomycin biosynthesis, organism-specific biosystem; Butirosin and neomycin biosynthesis, conserved biosystem; Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; Fructose and mannose metabolism, organism-specific biosystem;
Function	ATP binding; hexokinase activity; kinase activity; nucleotide binding; transferase activity;

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