

Recombinant Human HK2, His-tagged

Cat. No. HK2-13807H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HK2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
Description	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells.
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 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	HK2 hexokinase 2 [Homo sapiens]
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Official Symbol	HK2
Synonyms	HK2; hexokinase 2; hexokinase-2; HK II; hexokinase type II; hexokinase-2, muscle; muscle form hexokinase; HKII; HXK2; DKFZp686M1669;
Gene ID	3099
mRNA Refseq	NM_000189
Protein Refseq	NP_000180
MIM	601125
UniProt ID	P52789
Chromosome Location	2p13
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; glucose binding; hexokinase activity; kinase activity; nucleotide binding; transferase activity;