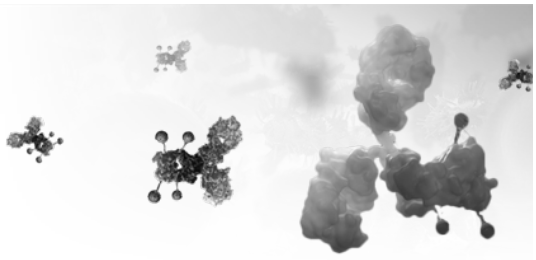

Human HK2 peptide (DAG-P1665)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Apr 2009]
Specificity	Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the hexokinase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	HK2 hexokinase 2 [Homo sapiens (human)]
Official Symbol	HK2
Synonyms	HK2; hexokinase 2; HKII; HXK2; hexokinase-2; HK II; hexokinase type II; hexokinase-2, muscle; muscle form hexokinase;

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Entrez Gene ID	3099
mRNA Refseq	NM_000189.4
Protein Refseq	NP_000180.2
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; Carbon metabolism, organism-specific biosystem; Carbon metabolism, conserved biosystem; Fructose and mannose
Function	ATP binding; fructokinase activity; glucokinase activity; glucose binding; hexokinase activity; mannokinase activity;

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