



Human PDK4 peptide (DAG-P1026)

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

PRODUCT INFORMATION

Antigen Description	This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. [provided by RefSeq, Jul 2008]
Specificity	Ubiquitous; highest levels of expression in heart and skeletal muscle.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
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	PDK4 pyruvate dehydrogenase kinase, isozyme 4 [Homo sapiens (human)]
Official Symbol	PDK4
Synonyms	PDK4; pyruvate dehydrogenase kinase, isozyme 4; pyruvate dehydrogenase kinase, isoenzyme 4; pyruvate dehydrogenase, lipoamide, kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial;

Entrez Gene ID	5166
mRNA Refseq	NM_002612.3
Protein Refseq	NP_002603.1
UniProt ID	A4D1H4
Chromosome Location	7q21.3
Pathway	Metabolism, organism-specific biosystem; Pyruvate metabolism, organism-specific biosystem; Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific biosystem; Regulation of pyruvate dehydrogenase (PDH) complex, organism-specific biosystem; The citric acid (TCA) cycle and respiratory electron transport, organism-specific biosystem;
Function	ATP binding; protein kinase activity; protein serine/threonine kinase activity; pyruvate dehydrogenase (acetyl-transferring) kinase activity;