

Active Recombinant Human PDK4 Protein, GST-tagged

Cat. No. PDK4-1073H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PDHK4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect cells
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.
Bio-activity	20 nmol/min/mg
Molecular Mass	~71 kDa
Purity	>90%
Stability	One year at -70 centigrade from the date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Shipping	Dry ice.

GENE INFORMATION

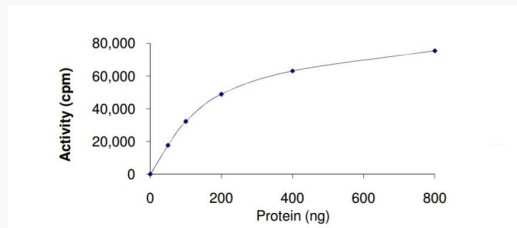
Gene Name	PDK4 pyruvate dehydrogenase kinase 4 [Homo sapiens (human)]
Official Symbol	PDK4
Synonyms	PDK4; pyruvate dehydrogenase kinase 4; pyruvate dehydrogenase kinase, isozyme 4; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial; pyruvate dehydrogenase kinase, isoenzyme 4; pyruvate dehydrogenase, lipoamide, kinase isozyme 4, mitochondrial; EC 2.7.11.2
Gene ID	5166
mRNA Refseq	NM_002612
Protein Refseq	NP_002603
MIM	602527
UniProt ID	Q16654

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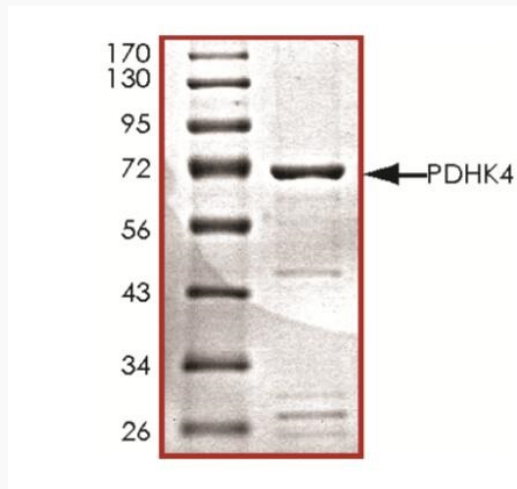
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Specific Activity



The specific activity of PDK4 was determined to be 20 nmol/min/mg as per activity assay protocol.

Purity



The purity of PDK4 was determined to be >90% by densitometry.

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