

## Active Recombinant Human PDK2, GST-tagged

Cat. No. PDK2-1071H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PDHK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full Length
<b>Description</b>	This gene encodes a member of the pyruvate dehydrogenase kinase family. The encoded protein phosphorylates pyruvate dehydrogenase, down-regulating the activity of the mitochondrial pyruvate dehydrogenase complex. Overexpression of this gene may play a role in both cancer and diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	7.5 nmol/min/mg
<b>Molecular Mass</b>	~70 kDa
<b>Purity</b>	>95%
<b>Applications</b>	Kinase Assay; Western Blot

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<b>Stability</b>	1 yr at -70oC from date of shipment.
<b>Storage</b>	Store product at -70oC. 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.
<b>Concentration</b>	0.1 ug/ul
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">PDK2 pyruvate dehydrogenase kinase, isozyme 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	PDK2
<b>Synonyms</b>	PDK2; pyruvate dehydrogenase kinase, isozyme 2; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 2, mitochondrial; pyruvate dehydrogenase kinase, isoenzyme 2; pyruvate dehydrogenase, lipoamide, kinase isozyme 2, mitochondrial; PDHK2; EC 2.7.11.2
<b>Gene ID</b>	<a href="#">5164</a>
<b>mRNA Refseq</b>	<a href="#">NM_002611</a>
<b>Protein Refseq</b>	<a href="#">NP_002602</a>
<b>MIM</b>	<a href="#">602525</a>
<b>UniProt ID</b>	<a href="#">Q15119</a>
<b>Chromosome Location</b>	17q21.33

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<b>Pathway</b>	B Cell Receptor Signaling Pathway; Pyruvate metabolism; Regulation of pyruvate dehydrogenase (PDH) complex
<b>Function</b>	ATP binding; protein homodimerization activity; protein kinase activity; protein serine/threonine kinase activity

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