

Active Recombinant Human PDK2, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human PDHK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
Description	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.
Form	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.
Bio-activity	7.5 nmol/min/mg
Molecular Mass	~70 kDa
Purity	>95%
Applications	Kinase Assay; Western Blot

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Stability	1 yr at -70oC from date of shipment.
Storage	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.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	PDK2 pyruvate dehydrogenase kinase, isozyme 2 [Homo sapiens]
Official Symbol	PDK2
Synonyms	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
Gene ID	5164
mRNA Refseq	NM_002611
Protein Refseq	NP_002602
MIM	602525
UniProt ID	Q15119
Chromosome Location	17q21.33

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

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