

## Product datasheet for **TP305127M**

### **PDK1 (NM\_002610) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyruvate dehydrogenase kinase, isozyme 1 (PDK1), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205127 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MRLARLLRGAALAGPGPLRAAGFSRSFSSDSGSSPASERGVPGQVDFYARFSPSPLSMKQFLDFGSVNA CEKTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQLQELLDKDKSAEDAKAIYDFTD TVIRIRNRHNDVIPTMAQGVIEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQHSLFLGGKKGKSP SHRKHIGSINPNCNVLEVIKIDGYENARRLCDLYIINSPELEELNAKSPGQPIQVVVPSHLYHMVFEL FKNAMRATMEHHANRGVYPPIQVHVTLGNEDLTKMSDRGGVPLRKIDRLFNYMYSTAPRPRVETSRAV PLAGFGYGLPISRLYAQYFQGDCLKLYSLEGYGTDAVIYIKALSTDSIERLPVYNKAAWKHYNTNHEADDW CVPSREPKDMTFRSA
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	49.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_002601](#)

Locus ID: 5163

UniProt ID: [Q15118](#)

RefSeq Size: 4674

Cytogenetics: 2q31.1

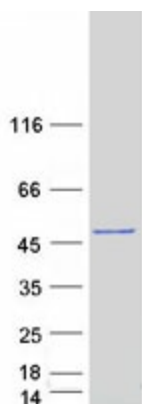
RefSeq ORF: 1308

**Summary:** Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2013]

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Fc epsilon RI signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway

### Product images:



Coomassie blue staining of purified PDK1 protein (Cat# [TP305127]). The protein was produced from HEK293T cells transfected with PDK1 cDNA clone (Cat# [RC205127]) using MegaTran 2.0 (Cat# [TT210002]).