Recombinant Human PDK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PDK1-6460H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDK1 MS Standard C13 and N15-labeled recombinant protein (NP_002601) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	49.2 kDa
AA Sequence	MRLARLLRGAALAGPGPGLRAAGFSRSFSSDSGSSPASERGVPGQVDFYARFSPS PLSMKQFLDFGSVNACEKTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQS WYIQSLQELLDFKDKSAEDAKAIYDFTDTVIRIRNRHNDVIPTMAQGVIEYKESFGVD PVTSQNVQYFLDRFYMSRISIRMLLNQHSLLFGGKGKGSPSHRKHIGSINPNCNVLE VIKDGYENARRLCDLYYINSPELELEELNAKSPGQPIQVVYVPSHLYHMVFELFKNAM RATMEHHANRGVYPPIQVHVTLGNEDLTVKMSDRGGGVPLRKIDRLFNYMYSTAPR PRVETSRAVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTDSIERL

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	PVYNKAAWKHYNTNHEADDWCVPSREPKDMTTFRSATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PDK1 pyruvate dehydrogenase kinase 1 [Homo sapiens (human)]
Official Symbol	PDK1
Synonyms	PDK1; pyruvate dehydrogenase kinase, isozyme 1; pyruvate dehydrogenase kinase, isoenzyme 1; mitochondrial pyruvate dehydrogenase, lipoamide, kinase isoenzyme 1;
Gene ID	5163
mRNA Refseq	NM_002610
Protein Refseq	NP_002601
MIM	602524

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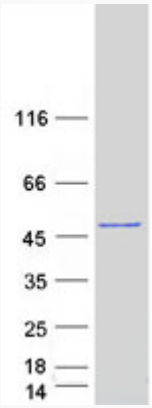
UniProt ID	Q15118
SDS-PAGE	

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