

# Recombinant Human PDK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PDK2-3199H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

PDK2 MS Standard C13 and N15-labeled recombinant protein (NP\_002602) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### 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.

### Molecular Mass

46.2 kDa

### AA Sequence

```
MRVWVWALLKNASLAGAPKYIEHFSKFSPSPLSMKQFLDFGSSNACEKTSFTFLRQE
LPVRLANIMKEINLLPDRVLSTPSVQLVQSWYVQSLLDIMEFLDKDPEDHRTLSTQFTD
ALVTIRNRHNDVVPTMAQGVLEYKDTYGDDPVSNQNIQYFLDRFYLSRISIRMLINQH
TLIFDGSTNPAHPKHIGSIDPNCNVSEVVKDAYDMAKLLCDKYMASPDLEIQEINAA
NSKQPIHMVYVPSHLYHMLFELFKNAMRATVESHESSLIPPIKVMVALGEEDLSIKM
SDRGGGVPLRKIERLFSYMYSTPTPQPQTGGTPLAGFGYGLPISRLYAKYFQGD
QLFSMEGFGTDAVIYLKALSTDSVERLPVYNKSAWRHYQTIQEAGDWCVSTEPKN
TSTYRVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | PDK2 pyruvate dehydrogenase kinase 2 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | PDK2   |
| <b>Synonyms</b>        | PDK2; pyruvate dehydrogenase kinase, isozyme 2; pyruvate dehydrogenase kinase, isoenzyme 2; PDHK2; pyruvate dehydrogenase, lipoamide, kinase isozyme 2, mitochondrial; |
| <b>Gene ID</b>         | 5164   |
| <b>mRNA Refseq</b>     | NM_002611  |
| <b>Protein Refseq</b>  | NP_002602  |
| <b>MIM</b>             | 602525   |
| <b>UniProt ID</b>      | Q15119   |

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SDS-PAGE



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