

# Recombinant Full Length Human PDK4 Protein

**Cat. No.** PDK4-369HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human PDK4 with proprietary tag; Predicted MWt 71.32 kDa.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 411 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 71.320kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MKAARFVLRSGSLNGAGLVPREVEHFSRYSPSPLSMKQLLDGSEACERTSFAF<br>LRQELPVRLANILKEIDILPTQLVNTSSVQLVKSWEYIQLMDLVEFHEKSPDDQKALS<br>DFVDTLIKVRNRHHNVPTMAQGIIEYKDACTVDPVTNQNQLQYFLDRFYMNRISTRM<br>LMNQHILIFSDSQTGNPISHGSDPNCDVVAVVQDAFECSRMLCDQYYLSSPELKLT<br>QVNGKFPDQPIHIVYVPSHLHHMLFELFKNAMRATVEHQENQPSLTPIEVIVVLGKED<br>LTIKISDRGGGVPLRIIDRLFSYTYSTAPTVMDSNRNAPLAGFGYGLPISRLYAKYFQ                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
|                       | GDLNLYSLSGYGTDAIYKALSSSESIEKLPVFNKSAFKHYQMSSEADDWCIPSREPK<br>NLAKEVAM                              |
| <b>Purity</b>         | Proprietary Purification                                                                           |
| <b>Storage</b>        | Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles. |
| <b>Storage Buffer</b> | pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.                                          |

## GENE INFORMATION

|                        |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PDK4 pyruvate dehydrogenase kinase, isozyme 4 [ Homo sapiens ]                             |
| <b>Official Symbol</b> | PDK4                                                                                       |
| <b>Synonyms</b>        | PDK4; pyruvate dehydrogenase kinase, isozyme 4; pyruvate dehydrogenase kinase, isoenzyme 4 |
| <b>Gene ID</b>         | 5166                                                                                       |
| <b>mRNA Refseq</b>     | NM_002612                                                                                  |
| <b>Protein Refseq</b>  | NP_002603                                                                                  |
| <b>MIM</b>             | 602527                                                                                     |
| <b>UniProt ID</b>      | Q16654                                                                                     |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA