

## Product datasheet for **AR09115PU-L**

### **PDK1 (29-436, His-tag) Human Protein**

#### **Product data:**

|  |   |
|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | PDK1 (29-436, His-tag) human recombinant protein, 0.5 mg  |
| <b>Species:</b>                              | Human   |
| <b>Expression Host:</b>                      | E. coli   |
| <b>Expression cDNA Clone or AA Sequence:</b> | <u>MGSSHHHHHH SSGLVPRGSH</u> MSSDSGSSPA SERGVPGQVD FYARFSPSPL SMKQFLDFGS VNACEKTSFM FLRQELPVRL ANIMKEISLL PDNLLRTPSV QLVQSWYIQS LQELDFKDK SAEDAKAIYD FTDTVIRIRN RHNDVIPTMA QGVIEYKESF GVDPVTSQNV QYFLDRFYMS RISIRMLLNQ HSLFGGKKGK GSPSHRKHIG SINPNCNVLE VIKDGYENAR RLCDLYYINS PELELEELNA KSPGQPIQV YVPSHLYH MV FELFKNAMRA TMEHHANRGV YPPIQVHVT L GNEDLTVKMS DRGGGVPLRK IDRLFNMY S TAPRPRVETS RAVPLAGFGY GLPISRLYAQ YFQGLKLYS LEGYGTDAVI YIKALSTDSI ERLPVYNKAA WKHYNTNHEA DDWCVPSREP KDMTTFRSA |
| <b>Tag:</b>                                  | His-tag   |
| <b>Predicted MW:</b>                         | 48.6 kDa  |
| <b>Concentration:</b>                        | lot specific  |
| <b>Purity:</b>                               | >95% by SDS - PAGE  |
| <b>Buffer:</b>                               | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 7.0) containing 100 mM NaCl, 0.5 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 1 mM MgCl <sub>2</sub> , 40% glycerol   |
| <b>Preparation:</b>                          | Liquid purified protein   |
| <b>Protein Description:</b>                  | Recombinant human PDK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.   |
| <b>Storage:</b>                              | Store (in aliquots) at -20°C or -70°C. Avoid repeated freezing and thawing.   |
| <b>Stability:</b>                            | Shelf life: one year from despatch.   |
| <b>RefSeq:</b>                               | <u><a href="#">NP_001265478</a></u>   |
| <b>Locus ID:</b>                             | 5163  |
| <b>UniProt ID:</b>                           | <u><a href="#">Q15118</a></u>   |
| <b>Cytogenetics:</b>                         | 2q31.1  |



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**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:**

