

Datasheet for ABIN7320000

**PDK4 Protein (GST tag,His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	PDK4
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDK4 protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Mouse PDK4 Protein (His & GST Tag)(Active)
Sequence:	Met1-Val412
Characteristics:	A DNA sequence encoding the mouse PDK4 (070571) (Met1-Val412) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Kinase activity untested

## Target Details

Target:	PDK4
Alternative Name:	PDK4 ( <a href="#">PDK4 Products</a> )
Background:	Background: Pyruvate dehydrogenase kinase 4 (PDK4) is a mitochondrial protein that regulates

## Target Details

the TCA cycle. PDK4, a vital mitochondrial protein, controls the switch between glycolysis and oxidative phosphorylation based upon nutrient availability. Pyruvate dehydrogenase kinase 4 (PDK4) mRNA has been reported as an up-regulated gene in the heart and skeletal muscle of carnitine-deficient juvenile visceral steatosis (JVS) mice under fed conditions. PDK4 plays an important role in the inhibition of glucose oxidation via the phosphorylation of pyruvate dehydrogenase complex (PDC). PDK4 gene expression is stimulated by thyroid hormone (T(3)), glucocorticoids, and long chain fatty acids.

Synonym: AV005916

Molecular Weight: 74.4 kDa

UniProt: [O70571](#)

Pathways: [PI3K-Akt Signaling](#), [Hedgehog Signaling](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

## Application Details

Restrictions: For Research Use only

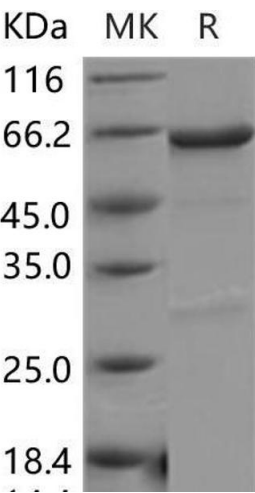
## Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



**Western Blotting**

**Image 1.**