

## Recombinant Human PDHK3 (N-GST tag)

Cat No:HR2R1841

For research use only

## Overview

Quantity	10 ?g
Gene Symbol	PDHK3
Gene ID	N/A
Accession	NM_005391
Alternative Name	PDK3
Species	Human
Source	Insect cells
Description	PDHK3 or Pyruvate Dehydrogenase Kinase 3 is a member of the PDHK family that phosphorylate and inactivate the Pyruvate Dehydrogenase (PDH). 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. HIF-1 induces PDHK3 expression leading to inhibition of mitochondrial respiration. Forced expression of PDHK3 in cancer cells results in increased lactic acid accumulation and drugs resistance, whereas knocking down PDHK3 inhibits hypoxia-induced cytoplasmic glycolysis and cell survival.
Functions	The specific activity of PDHK3 was determined to be12 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	69
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.