

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 be 12 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.