

Recombinant Human PDHK1 (N-GST tag)

Cat No:HR2R1839

For research use only

Overview

Quantity	10 ?g
Gene Symbol	PDHK1
Gene ID	N/A
Accession	NM_002610
Alternative Name	PDK1
Species	Human
Source	Insect cells
Description	?PDHK1 or Pyruvate Dehydrogenase Kinase 1 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. PDHK1 is an important regulator of PDH in clonal ?-cells and the activity of PDHK1 and PDH are important for efficient metabolic coupling. Maintaining low PDHK1 expression/activity and keeping PDH in a dephosphorylated and active state, is important for ? -cells to achieve the metabolic flux rates necessary for maximal glucose-stimulated insulin secretion .
Functions	The specific activity of PDHK1 was determined to be 1.7 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	70
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.