

Recombinant human PDH kinase 1/PDK1 protein

Catalog Number: PDK0904

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-436aa

UniProt No.

Q15118

NCBI Accession No.

NP_002601

Alternative Names

Pyruvate dehydrogenase kinase 1, Pyruvate dehydrogenase kinase, PDHK1, Isozyme 1, Isoenzyme

PRODUCT SPECIFICATION

Molecular Weight

48.6 kDa (429aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.0) containing 100mM NaCl, 0.5mM DTT, 0.1mM EDTA, 0.1mM PMSF, 1mM MgCl₂, 40% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PDK1 (pyruvate dehydrogenase kinase isoform 1) is involved in the regulation of enzymatic activity of mammalian pyruvate dehydrogenase (PDH) that is a part of a mitochondrial multienzyme complex to catalyze the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. PDK1 has been found to serve as an effective therapeutic target for inhibition of glioblastoma growth. Recombinant human PDK1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MSSDSGSSPA SERGVPGQVD FYARFSPSPL SMKQFLDFGS VNACEKTSFM FLRQELPVRL
ANIMKEISLL PDNLLRTPSV QLVQSWYIQS LQELLDKDK SAEDAKAIYD FTDTVIRIRN RHNDVIPTMA QGVIEYKESF
GVDPVTSQNV QYFLDRFYMS RISIRMLLNQ HSLLFGGKGK GSPSHRKHIG SINPNCNVLE VIKDGYENAR RLCDLYYINS
PELELEELNA KSPGQPIQVV YVPSHLYHMY FELFKNAMRA TMEHHANRGV YPPIQVHVTL GNEDLTVKMS DRGGGVPLRK
IDRLFNMYMS TAPRPRVETS RAVPLAGFGY GLPISRLYAQ YFQGDLKLYS LEGYGTDAVI YIKALSTDSI ERLPVYNKAA
WKHYNTNHEA DDWCVPSREP KDMTTFRSA

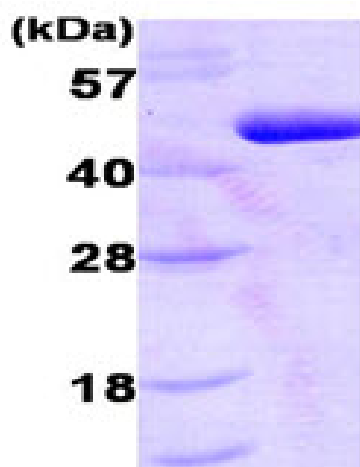
General References

Gudi R ., et al. (1995). J Biol chem. 270(48) : 28989-94

Xie Z., et al. (2006). BMC Cancer. 6 :77

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)