

PDK1, 29-436aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP03333

3th Edition

Synonyms:Pyruvate dehydrogenase kinase, isozyme 1.

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.

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

Molecular Weight:48.6 kDa (429 aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMSSDSGSSPASERGVPGQVDFYARFSPSPLSMKQFLDFGSVNACEKTSFMFLR
QELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQSLQELLDFKDKSAEDAKAIYDFTDTVIRIRNRHNDVIPTMAQG
VIEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQHSLFFGGKGGKSPSHRKHIGSINPNCNVLEVIKDG YENA
RRLCDLYYINSPELELEELNAKSPGQPIQVVYVPSHLYHMFELFKNAMRATMEHHANRGVYPPIQVHVTLGNEDLT
VKMSDRGGGVPLRKIDRLFNYMYSTAPRPRVETSRAVPLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIK
ALSTDSIERLPVYNKAAWKHYNTNHEADWCVPSREPKDMTTFRSA

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.