Recombinant Rat [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1, mitochondrial (Pdk1)

Product Code	CSB-BP730872RA
Abbreviation	Pdk1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q63065
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	ASDS ASGSGPASES GVPGQVDFYA RFSPSPLSMK QFLDFGSVNA CEKTSFMFLR QELPVRLANI MKEISLLPDN LLRTPSVQLV QSWYIQSLQE LLDFKDKSAE DAKTIYEFTD TVIRIRNRHN DVIPTMAQGV TEYKESFGVD PVTSQNVQYF LDRFYMSRIS IRMLLNQHSL LFGGKGSPSH RKHIGSINPN CDVVEVIKDG YENARRLCDL YYVNSPELEL EELNAKSPGQ PIQVVYVPSH LYHMVFELFK NAMRATMEHH ADKGVYPPIQ VHVTLGEEDL TVKMSDRGGG VPLRKIDRLF NYMYSTAPRP RVETSRAVPL AGFGYGLPIS RLYAQYFQGD LKLYSLEGYG TDAVIYIKAL STESIERLPV YNKAAWKHYR TNHEADDWCV PSREPKDMTT FRSS
Source	Baculovirus
Target Names	Pdk1
Protein Names	Recommended name: [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1, mitochondrial EC= 2.7.11.2 Alternative name(s): PDK p48 Pyruvate dehydrogenase kinase isoform 1
Expression Region	27-434
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Pyruvate dehydrogenase (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. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.