



Recombinant Rat Pyruvate kinase isozymes M1/M2 (Pkm2)

Product Code	CSB-EP018072RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11980
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	PKPDSEAGT AFIQTQQLHA AMADTFLEHM CRLDIDSAPI TARNTGIICT IGPASRSVEM LKEMIKSGMN VARLNFSHGT HEYHAETIKN VRAATESFAS DPILYRPVAV ALDTKGPEIR TGLIKGSGTA EVELKKGATL KITLDNAYME KCDENILWLD YKNICKVVEV GSKIYVDDGL ISLQVKEKGA DYLVTEVENG GSLGSKKGVN LPGAAVDLPA VSEKDIQDLK FGVEQDVDMV FASFIRKAAD VHEVRKVLGE KGKNIKIISK IENHEGVRRF DEILEASDGI MVARGDLGIE IPAENVFLAQ KMMIGRCNRA GKPVICATQM LESMIKKPRP TRAEQSDVAN AVLDGADCIM LSGETAKGDY PLEAVRMQHL IAREAEA AVF HRLLEELAR ASSQSTDPLE AMAMGSVEAS YKCLAAALIV LTESGRSAHQ VARYRPRAPI IAVTRNPQTA RQAHLYRGIF PVLCKDAVLD AWAEDVDLRV NLAMNVGKAR GFFKKGDVVI VLTGWRPGSG FTNTMRVVPV P
Source	E.coli
Target Names	Pkm
Protein Names	Recommended name: Pyruvate kinase isozymes M1/M2 EC= 2.7.1.40 Alternative name(s): Pyruvate kinase muscle isozyme
Expression Region	2-531
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	This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Three alternatively spliced transcript variants encoding two distinct isoforms have been reported.
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.