

32-3092: PKLR Recombinant Protein

Alternative Name : PK1,PKL,RPK,pyruvate kinase isozyme R/L,Red cell/liver pyruvate kinase,PKRL

Description

Source : Escherichia Coli. PKLR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 549 amino acids (47-574a.a.) and having a molecular weight of 59.2kDa. The PKLR is fused to 21a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques. PKLR is a pyruvate kinase which catalyzes the transphosphorylation of phosphoenolpyruvate into pyruvate and ATP. That is the rate-limiting step of glycolysis. PKLR gene encodes the L- and R-type isoenzymes through alternate splicing events controlled by different promoters. L-type isoform can also appear as a tetramer and is upregulated by glucose with implications in maturity-onset diabetes of the young.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The PKLR protein solution (1mg/1ml) contains 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 0.2M NaCl and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MLTQELGTAF FQQQLPAAM ADFLEHLCL LDIDSEPVAA RSTSIATIG PASRSVERLK EMIKAGMNIA RLNFSGSHE YHAESIANVR EAVESFAGSP LSYPVAIAL DTKGPEIRTG ILQGGPESEV ELVKGSQVLV TVDPAFRTRG NANTVWVDYP NIVRVVPVGG RIYIDDGLIS LVVQKIGPEG LVTQVENGGV LGSRKGVNLP GAQVDLPGLS EQDVRDLRFG VEHGVDIVFA SFVRKASDVA AVRAALGPEG HGIKIISKIE NHEGVKRFDE ILEVSDGIMV ARGDLGIEIP AEKVFLAQKM MIGRCNLAGK PVVCATQMLE SMITKPRPTR AETSDVANAV LDGADCIMLS GETAKGNFPV EAVKMQHAIA REAEAAVYHR QLFEELRRAA PLSRDPTVET AIGAVEAAFK CCAAAIIVLT TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW ADDVDRRVQF GIESGKLRGF LRVGDLVIVV TGWRPGSGYT NIMRVLSIS.

Application Note

Specific activity: >0.1 unit/mg. One unit will form 1.0 umol of phospho(enol)pyruvate to pyruvate per minute at pH 7.5 at 37C.

