

Recombinant Human Pyruvate Kinase, Liver And RBC, His-tagged

Cat. No. PKLR-2804H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PKLR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 59.2 kDa (549aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	PKLR is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. The PKLR gene encodes the L- and R-type isoenzymes through alternative splicing events under the control of different promoters. The L-type isoform also exists as a tetramer and is upregulated by glucose with implications in maturity-onset diabetes of the young.
Sequences Of Amino Acids	MGSSHHHHH SSGLVPRGSH MLTQELGTAF FQQQLPAAM ADTFLEHLCL LDIDSEPVA RSTSIATIG PASRSVERLK EMIKAGMNIA RLNFSGHSHE YHAESIANVR EAVESFAGSP LSYPVIAIAL DTKGP EIRTG 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

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REAEEAVYHR QLFEELRRAA PLSRDPTEVT AIGAVEAAFK CCAAIIIVLT
TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW
ADDVDRRVQF GIESGKLRGF LRVGDLVIVV TGWRPGSGYT NIMRVLSIS

Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	PKLR pyruvate kinase, liver and RBC [Homo sapiens]
Synonyms	PKLR; pyruvate kinase, liver and RBC; PK1; PKL; PKR; RPK; PKRL; pyruvate kinase isozymes R/L; pyruvate kinase 1; OTTHUMP00000034069; pyruvate kinase type L; pyruvate kinase isozyme R/L; R-type/L-type pyruvate kinase; red cell/liver pyruvate kinase; pyruvate kinase, liver and blood cell; EC 2.7.1.40
Gene ID	5313
mRNA Refseq	NM_000298
Protein Refseq	NP_000289
MIM	609712

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UniProt ID	P30613
Chromosome Location	1q21
Pathway	Glycolysis / Gluconeogenesis; Insulin signaling pathway; Maturity onset diabetes of the young; Metabolic pathways; Purine metabolism; Pyruvate metabolism; Type II diabetes mellitus
Function	ATP binding; magnesium ion binding; nucleotide binding; potassium ion binding; pyruvate kinase activity; transferase activity
	