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**Product Data Sheet**


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Product Name: PKLR Human  
 Cat. No.: GP22597  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PK1; PKL; RPK; pyruvate kinase isozyme R/L; Red cell/liver pyruvate kinase; PKRL		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MLTQELGTAF FQQQLPAAM ADTFLEHLCL          LDIDSEPVAA RSTSIIATIG PASRSVERLK EMIKAGMNIA RLNFSGHSHE          YHAESIANVR EAVESFAGSP LSYRPVAIAL 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          REAAAVYHR QLFEELRRAA PLSRDPTEVT AIGAVEAAFK CCAAIIIVLT          TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW          ADDVDRRVQF GIESGKLRGF LRVGDLVIVV TGWRPGSGYT NIMRVLSIS.</p>		
Formulation	The PKLR protein solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT 0.2M NaCl and 10% glycerol.		

**Introduction**

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.

**Biological Activity**

Specific activity: >0.1 unit/mg. One unit will form 1.0 umol of phospho(enol)pyruvate to

**Caution: Product has not been fully validated for medical applications. For research use only.**

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pyruvate per minute at pH 7.5 at 37C.

### Stability

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.

### Background

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.

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