

## PKLR Human

**Description:** 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.

Catalog #:PKPS-314

For research use only.

**Synonyms:** PK1, PKL, RPK, pyruvate kinase isozyme R/L, Red cell/liver pyruvate kinase, PKRL

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MLTQELGTAF FQQQLPAAM  
ADTFLEHLCL LDIDSEPVA RSTSIATIG PASRSVERLK EMIKAGMNIA RLNFSGSHE  
YHAESIANVR EAVESFAGSP LSYRPVAIL DTKGPEIRTG ILQGGPESEV ELVKGSQVLV  
TVDPAFRTRG NANTVWVDYP NIVRVVPVGG RIYIDDGLIS LVVQKIGPEG LVTQVENGGV  
LGSRKGVNLP GA

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The PKLR protein solution (1mg/1ml) contains 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 0.2M NaCl and 10% glycerol.

### 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.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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 pyruvate per minute at pH 7.5 at 37C

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