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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 wieght 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 FQQQQLPAAM ADTFLEHLCL LDIDSEPVAA RSTSIIATIG PASRSVERLK EMIKAGMNIA RLNFSHGSHE YHAESIANVR EAVESFAGSP LSYRPVAIAL 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 drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PKLR is a pyruvate kinase which catalyzes the transphosphorylation of phohsphoenolpyruvate into pyruvate and ATP. That is the rate-limiting step of glycolysis. PKLR gene encodes the L- and R-type isoenzymes throµgh 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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