

Pyruvate Kinase, Liver and RBC Human Recombinant

Item Number	rAP-1728
Synonyms	PK1, PKL, RPK, pyruvate kinase isozyme R/L, Red cell/liver pyruvate kinase, PKRL
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.
Uniprot Accession Number	P30613
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MLTQELGTAF FQQQLPAAM ADTFLEHLCL LDIDSEPVAA RSTSI- IATIG PASRSVERLK EMIKAGMNIA RLNFSGHSHE YHAESIANVR EAVESFAGSP LSYPVVAIAL DTKGPEIRTG ILQGGPESEV ELVKGSQVLV TVDPAFRTRG NANTVWVDYP NIVRVVPVGG RIYIDDGLIS LVVQKIGPEG LVTQVENGGV LGSRKGVNLP GAQVDLPGLS EQDVRDLRFG VEHGVDIVFA SFVR- KASDVA AVRAALGPEG HGIKIISKIE NHEGVKRFDE ILEVSDGIMV ARGDLGIEIP AEKVFLAQKM MI- GRCNLAGK PVVCATQMLE SMITKPRPTR AETSDVANAV LDGADCIMLS GETAKGNFPV EAVKMQHAIA REAAAVYHR QLFEELRRAA PLSRDPTEVT AIGAVEAAFK CCAAIIIVLT TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW ADDVDRRVQF GIESGKLRGF LRVGDLVIVV
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	The PKLR protein solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT 0.2M NaCl and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**