

PKLR, 47-574aa, Human, His tag, E.coli

Cat.NO.: TP03420

3th Edition

Synonyms:Pyruvate kinase isozymes R/L, PK1, PKL, PKR, PKRL, RPK.

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.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol

Molecular Weight:59.2 kDa (549aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMLTQELGTAFFQQQLPAAMADTFLEHLCLLDIDSEPVAARSTSIATIGPASRSVE
RLKEMIKAGMNIARLNFSHGSHEYHAESIANVREAVESFAGSPLSYRPVAIALDTKGPEIRTGILQGGPESEVELVKG
SQVLTVDPAFRTRGNANTVWVDYPNIVRVVPVGGRIYIDDGLISLVVQKIGPEGLVTQVENGVLGSRKGVNLPG
AQVDLPGLSEQDVRDLRFGEVHGVDIVFASFVRKASDVAAVRAALGPEGHGIIISKIENHEGVKRFDEILEVSDGIM
VARGDLGIEIPAEEKVFLAQKMMIGRCNLGKPVVCATQMLESMTKPRPTRAETSDVANAVLDGADCIMLSGETAKG
NFPVEAVKMQHAIAREAEAAVYHRQLFEELRRAAPLSRDPTEVTAIGAVEAAFKCCAAIIVLTTTGRSAQLLSRYRP
RAAVIAVTRSAQAARQVHLRCRGVFPLLYREPPEAIWADDVDRRVQFGIESGKLRGFLRVGDLVIVVTGWRP GSGYT
NIMRVLSIS

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.