

PKLR active protein

PKLR, 47-574aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48595	HOST E Coli	APPLICATIONS SDS-Page
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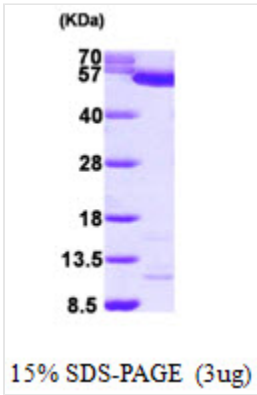
PRODUCT SYNONYMS

PKLR; 47-574aa; Human; His tag; E Coli (Bioactivity Validated); Pyruvate kinase isozymes R/L; PK1; PKL; PKR; PKRL; RPK; PKLR active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MLTQELGTAF FQQQLPAAM ADTFLEHLCL LDIDSEPVAA RSTSIATIG PASRSVERLK EMIKAGMNIA RLNFSGHSHE YHAESIANVR EAVESFAGSP LSYPVAIAL DTKGPEIRTG ILQGGPESEV ELVKGSQVLV TVDPAFTRTG NANTVWVDYP NIVRVVPVGG RIYIDDGLIS LVVQKIGPEG LVTQVENGGV LGSRKGVNLP GAQVDLPGLS EQDVRDLRFG VEHGVDIVFA SFVRKASDVA AVRAALGPEG HGKIIISKIE NHEGVKRFDE ILEVSDGIMV ARGDLGIEIP AEKVFLAQKM MIGRCNLAGK PVVCATQMLE SMITKPRPTR AETSDVANAV LDGADCIMLS GETAKGNFPV EAVKMQHAIA REAEAAVYHR QLFEELRRAA PLSRDPTEVT AIGAVEAAFK CCAAAIIVLT TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW ADDVDRRVQF GIESGKLRGF LRVGDLVIVV TGWRPGSGYT NIMRVLSIS
Sequence Length	574
Applicable Applications for PKLR active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Biological Activity	Specific activity: > 80 units/mg. One unit will convert 1.0 umole of phospho (enol)pyruvate to pyruvate per minute at pH 7.5 at 37C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PKLR active protein	PKLR is a pyruvate kinase that catalyzes the transphosphorylation of phohsphoenolpyruvate 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. Recombinant human PKLR protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for PKLR active protein	Cancer
References	Meza NW., et al. (2009) Mol Ther. 17 (12):2000-9.; Roy MF., et al. (2007) J Exp Med. 204 (12):2949-61.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835121
NCBI GeneID	5313
NCBI Accession #	NP_000289
NCBI GenBank Nucleotide #	NM_000298.5
UniProt Accession #	P30613; O75758; P11973
Molecular Weight	59.2 kDa (549aa), confirmed by MALDI-TOF
NCBI Official Full Name	pyruvate kinase PKLR isoform 1
NCBI Official Synonym Full Names	pyruvate kinase L/R
NCBI Official Symbol	PKLR
NCBI Official Synonym Symbols	PK1; PKL; PKR; RPK; PKRL
NCBI Protein Information	pyruvate kinase PKLR
UniProt Protein Name	Pyruvate kinase PKLR
UniProt Gene Name	PKLR
UniProt Synonym Gene Names	PK1; PKL

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.