

Product datasheet for **AR09652PU-N**

PKLR (47-574, His-tag) Human Protein

Product data:

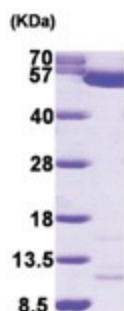
Product Type:	Recombinant Proteins
Description:	PKLR (47-574, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MLTQELGTAF FQQQLPAAM ADTFLEHLCL LDIDSEPVAA RSTSIATIG PASRSVERLK EMIKAGMNIA RLNFSGHSHE YHAESIANVR EAVESFAGSP LSYPVVAIAL DTKGPEIRTG ILQGGPESEV ELVKGSQVLV TVDPAFRTRG NANTVWVDYP NIVRVVPVGG RIYIDGGLIS LVVQKIGPEG LVTQVENGGV LGSRKGVNLP GAQVDLPGLS EQDVRDLRFV VEHGVDIVFA SFVRKASDVA AVRAALGPEG HGKIISKIE NHEGVKRFDE ILEVSDGIMV ARGDLGIEIP AEKVFLAQKM MIGRCNLAGK PVVCATQMLE SMITKPRPTR AETSDVANAV LDGADCIMLS GETAKGNFPV EAVKMQHAIA REAAAVYHR QLFEELRRAA PLSRDPTEVT AIGAVEAAFK CCAAAIIVLT TTGRSAQLLS RYRPRAAVIA VTRSAQAARQ VHLCRGVFPL LYREPPEAIW ADDVDRRVQF GIESGKLRGF LRVGDLVIVV TGWRPGSGYT NIMRVLSIS
Tag:	His-tag
Predicted MW:	59.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1 mM DTT, 10% glycerol
Bioactivity:	Specific: > 0.1 unit/mg. One unit will form 1.0 umol of phospho(enol)pyruvate to pyruvate per minute at pH 7.5 at 37°C.
	Activity Assay 1. Prepare a 1.45 ml reaction mixture into a suitable container. - Reaction mixture: 100 mM Tris-HCl pH 7.5, 7.6 mM ADP, 15 mM MgCl ₂ , 74 mM KCl, 0.2 mM Beta-NADH, 5.2 mM PEP, 0.025 units recombinant LDHA protein (cat. no. AR09387PU) 2. Add 50 ul of recombinant PKLR protein solution with various concentrations (0.5ug, 1ug) 3. Read the decrease in A340nm in kinetic mode for 10 minutes.
Preparation:	Liquid purified protein



[View online »](#)

Protein Description:	Recombinant human PKLR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000289
Locus ID:	5313
UniProt ID:	P30613
Cytogenetics:	1q22
Synonyms:	PK1; PKL; PKRL; RPK
Summary:	The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. Defects in this enzyme, due to gene mutations or genetic variations, are the common cause of chronic hereditary nonspherocytic hemolytic anemia (CNSHA or HNSHA). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus

Product images:



15% SDS-PAGE (3ug)