

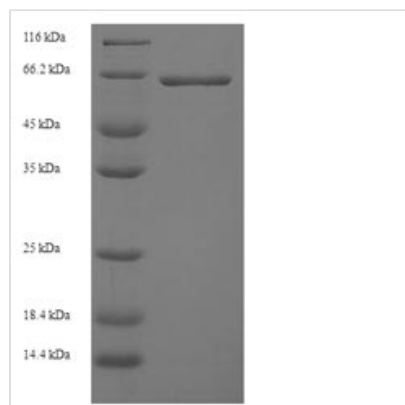


# Recombinant Human Pyruvate kinase PKLR (PKLR)

<b>Product Code</b>	CSB-EP018071HU
<b>Relevance</b>	Plays a key role in glycolysis.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P30613
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSIQENISSLQLRSWVSKSQRDLAKSILIGAPGGPAGYLRRASVAQLTQELGTA FFQQQQLPAAMADTFLEHLCLLDIDSEPVAARSTSIATIGPASRSVERLKEMIK AGMNIARLNFSHGSHEYHAESIANVREAVESFAGSPLSYRPVAIALDTKGPEIR TGILQGGPESEVELVKGSQVLVTVDPAFRTRGNANTVWVDYPNIVRVVPVGG RIYIDDGLISLVVQKIGPEGLVTQVENGGVLGSRKGVNLPGAQVDLPGLSEQDV RDLRFGVEHGVDIVFASFVRKASDVA AVRAALGPEGHGIKIISKIENHEGVKRF DEILEVSDGIMVARGDLGIEIPA EKVFLAQKMMIGRCNLAGKPVVCATQMLES M ITKPRPTRAETSDVANAVLDGADCIMLSGETAKGNFPVEAVKMQHAIAREAEA AVYHRQLFEELRRAAPLSRDPTEVTAIGAVEAAFKCCAAAIIVLT TTTGRSAQLLS RYPRAAVIAVTRSAQAARQVHLCRGVFPLLYREPPEAIWADDVDRRVQFGIE SGKLRGFLRVGDLVIVVTGWRPGSGYTNIMRVLSIS
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Gene Names</b>	PKLR
<b>Protein Names</b>	Recommended name: Pyruvate kinase isozymes R/L EC= 2.7.1.40Alternative name(s): Pyruvate kinase 1 R-type/L-type pyruvate kinase Red cell/liver pyruvate kinase
<b>Expression Region</b>	1-574aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	65.8kDa
<b>Protein Description</b>	Full Length



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The expression region of this recombinant Human PKLR covers amino acids 1-574. This PKLR protein is theoretically predicted to have a molecular weight of 65.8 kDa. This PKLR recombinant protein is manufactured in e.coli. The PKLR coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant PKLR protein in following stages of expression and purification.

Human pyruvate kinase isozyme R/L (PKLR) is primarily found in the liver and red blood cells. It is involved in the final step of glycolysis, where it catalyzes the conversion of phosphoenolpyruvate (PEP) to adenosine diphosphate (ADP), generating pyruvate and ATP. In red blood cells, PKLR is crucial for energy production and maintaining cell integrity. Research on PKLR includes investigations into its role in glycolytic regulation, metabolic disorders, and its significance in various tissues. Mutations in the PKLR gene can lead to pyruvate kinase deficiency, a condition associated with hemolytic anemia.