

## PKLR Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71210
<b>Synonyms:</b>	Pyruvate Kinase Isozymes R/L; Pyruvate Kinase 1; R-Type/L-Type Pyruvate Kinase; Red Cell/Liver Pyruvate Kinase; PKLR; PK1; PKL
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P30613 (M1-S574)
<b>Gene ID:</b>	5313
<b>Molecular Weight:</b>	Approximately 62.0 kDa

### PROPERTIES

#### AA Sequence

MSIQENISSL	QLRSWVSKSQ	RDLAKSILIG	APGGPAGYLR
RASVAQLTQE	LGTAFFQQQQ	LPAAMADTFL	EHLCLLDIDS
EPVAARSTSI	IATIGPASRS	VERLKEMIKA	GMNIARLNFS
HGSHEYHAES	IANVREAVES	FAGSPLSYRP	VAIALDTKGP
EIRTGILQGG	PESEVELVKG	SQVLVTVDPA	FRTRGNANTV
WVDYPNIVRV	VPVGGRIYID	DGLISLVVQK	IGPEGLVTQV
ENGGVLGSRK	GVNLPGAQVD	LPGLSEQDVR	DLRFGVEHGV
DIVFASFVRK	ASDVAAVRAA	LGPEGHGIKI	ISKIENHEGV
KRFDEILEVS	DGIMVARGDL	GIEIPAEEKVF	LAQKMMIGRC
NLAGKPVVCA	TQMLESMITK	PRPTRAETSD	VANAVLDGAD
CIMLSGETAK	GNFPVEAVKM	QHAIAREAEA	AVYHRQLFEE
LRRAAPLSRD	PTEVTAIGAV	EAAFKCCAAA	IIVLTTTGRS
AQLLSRYRPR	AAVIAVTRSA	QAARQVHLCR	GVFPLLYREP
PEAIWADDVD	RRVQFGIESG	KLRGFLRVGD	LVIVVTGWRP
GSGYTNIMRV	LSIS		

<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 50% Glycerol, 1 mM EDTA, 1 mM DTT, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

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## DESCRIPTION

### Background

PKLR, a crucial enzyme in cellular metabolism, functions as a pyruvate kinase that facilitates the conversion of phosphoenolpyruvate to pyruvate. This enzymatic process is integral to glycolysis, a fundamental pathway in cellular energy production. Through its catalytic activity, PKLR contributes to the synthesis of ATP, a vital energy currency in the cell. The enzyme's role in glycolysis underscores its significance in the regulation of energy metabolism and highlights its essential function in supporting various cellular processes dependent on ATP availability.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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