

## PKLR Protein, Rat (*P. pastoris*, His)

<b>Cat. No.:</b>	HY-P700578
<b>Synonyms:</b>	PKLR; pyruvate kinase, liver and RBC; PK1; PKL; PKR; RPK; PKRL; pyruvate kinase isozymes R/L; pyruvate kinase 1; OTTHUMP00000034069; pyruvate kinase type L; pyruvate kinase isozyme R/L; R-type/L-type pyruvate kinase; red cell/liver pyruvate kinase; pyruvate kinase, liver and blood cell; EC 2.7.1.40
<b>Species:</b>	Rat
<b>Source:</b>	<i>P. pastoris</i>
<b>Accession:</b>	P12928 (M1-S574)
<b>Gene ID:</b>	24651
<b>Molecular Weight:</b>	64.2 kDa

### PROPERTIES

#### AA Sequence

M S V Q E N T L P Q	Q L W P W I F R S Q	K D L A K S A L S G	A P G G P A G Y L R
R A S V A Q L T Q E	L G T A F F Q Q Q Q	L P A A M A D T F L	E H L C L L D I D S
Q P V A A R S T S I	I A T I G P A S R S	V D R L K E M I K A	G M N I A R L N F S
H G S H E Y H A E S	I A N I R E A T E S	F A T S P L S Y R P	V A I A L D T K G P
E I R T G V L Q G G	P E S E V E I V K G	S Q V L V T V D P K	F Q T R G D A K T V
W V D Y H N I T R V	V A V G G R I Y I D	D G L I S L V V Q K	I G P E G L V T E V
E H G G I L G S R K	G V N L P N T E V D	L P G L S E Q D L L	D L R F G V Q H N V
D I I F A S F V R K	A S D V L A V R D A	L G P E G Q N I K I	I S K I E N H E G V
K K F D E I L E V S	D G I M V A R G D L	G I E I P A E K V F	L A Q K M M I G R C
N L A G K P V V C A	T Q M L E S M I T K	A R P T R A E T S D	V A N A V L D G A D
C I M L S G E T A K	G S F P V E A V M M	Q H A I A R E A E A	A V Y H R Q L F E E
L R R A A P L S R D	P T E V T A I G A V	E A S F K C C A A A	I I V L T K T G R S
A Q L L S Q Y R P R	A A V I A V T R S A	Q A A R Q V H L S R	G V F P L L Y R E P
P E A I W A D D V D	R R V Q F G I E S G	K L R G F L R V G D	L V I V V T G W R P
G S G Y T N I M R V	L S V S		

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION****Background**

PKLR Protein, identified as a pyruvate kinase, assumes a pivotal role in glycolysis by catalyzing the conversion of phosphoenolpyruvate to pyruvate, accompanied by the synthesis of ATP. As a key enzyme in this metabolic pathway, PKLR serves as a critical mediator of energy production by facilitating the final steps of glycolysis. The catalytic activity of PKLR contributes to the generation of pyruvate, a central metabolite with implications in various cellular processes, including energy metabolism and the tricarboxylic acid (TCA) cycle. The significance of PKLR in glycolytic flux underscores its fundamental role in cellular energy homeostasis and highlights its potential as a target for therapeutic interventions aimed at modulating metabolic pathways.

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

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