

Recombinant Full Length Human PKLR Protein, C-Flag-tagged

Cat. No. PKLR-1092HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PKLR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	61.6 kDa
AA Sequence	MSIQENISSQLRSWVSKSQRD LAKSILIGAPGGPAGYLRRASVAQLTQELGTAFFQ QQQLPAAMADTFL EHLCLLDIDSEPVAARSTSIIATIGPASRSVERLKEMIKAGMNIAR LNFSGSHEYHAESIANVREAVES FAGSPLSYRPVAIALDTKGPEIRTGILQGGPESE VELVKGSQVLVTVDPAFRTRGNANTVWVDYPNIVRV VPVGGRIYIDDGLISLVVQKI GPEGLVTQVENGGVLGSRKGVNLPGAQVDLPGLSEQDVRDLRFGVEHGV DIVFAS FVRKASDVAAVRAALGPEGHGIKIISKIENHEGVKRFDEILEVSDGIMVARGDLGIEIPA EKVF LAQKMMIGRCNLAGKPVVCATQMLESMTKPRPTRAETSDVANAVLDGADCI

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MLSGETAKGNFPVEAVKM QHAIAREAEAAVYHRQLFEELRRAAPLSRDPTEVTAIG
 AVEAAFKCCAAAIVLTTTGRSAQLLSRYRPR AAVIAVTRSAQAARQVHLCRQGVFPLL
 YREPPEAIWADDVDRRVQFGIESGKLRGFLRVGDLVIVVTGWRP
 GSGYTNI MRVLSISTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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
Full Length	Full L.

GENE INFORMATION

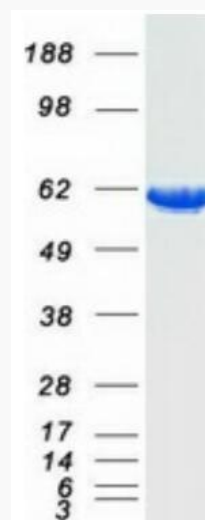
Gene Name	PKLR pyruvate kinase L/R [Homo sapiens (human)]
Official Symbol	PKLR

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Synonyms	PK1; PKL; RPK; PKRL
Gene ID	5313
mRNA Refseq	NM_000298.6
Protein Refseq	NP_000289.1
MIM	609712
UniProt ID	P30613



Coomassie blue staining of purified PKLR protein.