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Recombinant Human PKLR

Catalog#:P01306 Derived from Human Cells

DESCRIPTION	Recombinant Human Pyruvate Kinase, Liver And RBC is produced by our Mammalian expression system and the target gene encoding Met1-Ser574 is expressed with a 6His tag at the C-terminus. **Accession#**: P30613 **Known as**: EGF- Like Repeats and Discoidin I- Like Domains 3; EDIL3
FORMULATION	Supplied as a 0.2μm filtered solution of 20mM Tris-HCl, 500mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 50% Glycerol, 1mM EDTA, 1mM DTT, pH8.0.
SHIPPING	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
QUALITY CONTROL	**Mol Mass**:62.9kDa **AP Mol Mass**:58kDa, reducing conditions. **Purity**: Greater than 95% as determined by reducing SDS-PAGE. **Endotoxin**: Less than 0.1ng/μg (1 EU/μg) as determined by LAL test.
BACKGROUND	Pyruvate Kinase Isozymes R/L (PKLR) belongs to the pyruvate kinase family, There are 4 isozymes of pyruvate kinase in mammals: L, R, M1 and M2. L type is major isozyme in the liver; R is found in red cells; M1 is the main form in muscle, heart and brain; M2 is found in early fetal tissues. PKLR exists as a homotetramer and catalyzes the production of phosphoenolpyruvate from pyruvate and ATP. Defects in PKLR are also the cause of pyruvate kinase deficiency of red cells, which is a frequent cause of hereditary non-spherocytic hemolytic anemia.

SDS-PAGE