Data Sheet (Cat.No.TMPY-04765)

TargetMol

PKLR Protein, Human, Recombinant (His)

General Information

Synonyms: PKRL;PKR;RPK;PKL;PK1;pyruvate kinase, liver and RBC

Protein Construction: A DNA sequence encoding the human PKLR (NP_000289.1) (Leu47-Ser574) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His

Species: Human

Expression Host: E. coli

Accession: P30613-1

Molecular Weight: 59.1 kDa (predicted); 53-60 kDa (reducing conditions)

QC Testing

Biological Activity: Kinase activity untested

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Formulation: Supplied as sterile PBS, pH 7.4.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Pyruvate kinase (PKLR) is a critical erythrocyte enzyme that is required for glycolysis and production of ATP. Pyruvate kinase deficiency (PKD) is the most frequent red blood cell enzyme abnormality of the glycolytic pathway and the most common cause of hereditary nonspherocytic hemolytic anemia. Over 250 PKLR-gene mutations have been described, including missense/nonsense, splicing and regulatory mutations, small insertions, small and gross deletions, causing PKD and hemolytic anemia of variable severity. PKLR expression was increased in liver metastases as well as in primary colorectal tumors of patients with metastatic disease. PKLR protein variants may affect the frequency, and the intensity of malaria episodes induced by different Plasmodium parasites in humans living in areas of endemic malaria.

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