Recombinant Human PKLR Protein (His Tag)

Catalog No. PKSH032984

Note: Centrifuge before opening to ensure complete recovery of vial contents.

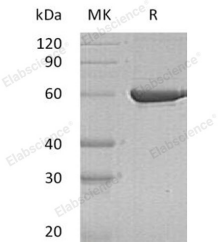
Description

Synonyms	Pyruvate Kinase Isozymes R/L;Pyruvate Kinase 1;R-Type/L-Type Pyruvate Kinase;Red Cell/Liver Pyruvate Kinase;PKLR;PK1;PKL
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ser574
Accession	P30613
Calculated Molecular Weight	62.9 kDa
Observed molecular weight	58 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 500mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 50% Glycerol, 1mM EDTA, 1mM DTT, pH8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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