

PKM2 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	OIP3;PKM2;CTHBP;TCB;pyruvate kinase, muscle;THBP1;PK3;HEL-S-30
Protein Construction:	Ser2-Pro531
Species:	Human
Expression Host:	E. coli
Accession:	P14618
Molecular Weight:	60.1 kDa (Predicted); 60 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 50 mM NaCl, 0.05% Brij-35, 1mM DTT, pH7.5.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Pyruvate kinase isoform M2 (PKM2) is a member of the pyruvate kinase (PK) family, a pivotal glycolytic enzyme that is consistently changed during tumorigenesis. PKM2 is expressed in some differentiated tissues, such as lung, fat tissue, retina, and pancreatic islets. As the rate-controlling enzyme in glycolysis, PKM2, has also been found to be expressed in embryonic, proliferating, and tumor cells, and it has been considered to be crucial for the metabolism and growth of tumor cells. Recent studies have shown that PKM2 promotes cell proliferation and suppresses cell apoptosis in various tumors. In addition, it has been reported that the PKM2 knockdown affects the Akt and ERK protein kinases.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481