

Recombinant Mouse Pkm Protein, Myc/DDK-tagged

Cat. No. Pkm-4888M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pyruvate kinase, muscle (Pkm), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival. In addition to its role in glycolysis, also regulates transcription. Stimulates POU5F1-mediated transcriptional activation. Promotes in a STAT1-dependent manner, the expression of the immune checkpoint protein CD274 in ARNTL/BMAL1-deficient macrophages. Also acts as a translation regulator for a subset of mRNAs, independently of its pyruvate kinase activity: associates with subpools of endoplasmic reticulum-associated ribosomes, binds directly to the mRNAs translated at the endoplasmic reticulum and promotes translation of these endoplasmic reticulum-destined mRNAs. Plays a general role in caspase independent cell death of tumor cells.
Molecular Mass	57.8 kDa

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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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pkm pyruvate kinase, muscle [Mus musculus (house mouse)]
Official Symbol	Pkm
Synonyms	Pkm; pyruvate kinase, muscle; Pk; Pk-; Pk3; Pk-2; Pk-3; Pkm2; AA414905; AL024370; AL024424; pyruvate kinase PKM; pyruvate kinase 3; pyruvate kinase isozymes M1/M2; pyruvate kinase muscle isozyme; EC 2.7.1.40
Gene ID	18746
mRNA Refseq	NM_011099
Protein Refseq	NP_035229
UniProt ID	P52480

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