

Active Recombinant Mouse Pkm Protein (1-531aa), N-6×His-tagged

Cat. No. Pkm-13M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Pkm protein (1-531aa) fused to His-tag at Nterminus was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
ProteinLength	1-531
Description	Enables mRNA binding activity and pyruvate kinase activity. Involved in positive regulation of cytoplasmic translation. Acts upstream of or within glycolytic process. Located in cilium; photoreceptor inner segment; and rough endoplasmic reticulum. Is expressed in several structures, including alimentary system; genitourinary system; nervous system; respiratory system; and sensory organ. Orthologous to human PKM (pyruvate kinase M1/2).
Form	Liquid
Bio-activity	Specific activity: > 50,000 pmol/min/μg. One unit will convert 1.0 pmole of phospho(enol)pyruvate to pyruvate per minute at pH 7.5 at 37 centigrade.
Molecular Mass	60.2 kDa (554aa) Confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSMPPKPHSEAGTAFIQTTQLHAAMADTFLEHMC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RLDIDSAPITARNTGIICTIGPASRSVEMLKEMIKSGMNVARLNFSHGTHEYHAETIKN
 VREATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATLKITLDNAYM
 EKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKEKGADFLVTEVENGGSLGSKK
 GVNLPGAAVDLPAVSEKDIQDLKFGVEQDVMVFASFIRKAADVHEVRKVLGEKKG
 NIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIEIPAENVFLAQKMMIGRCNRAGK
 PVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIMLSGETAKGDYPLEAVRMQ
 HLIAREAEAAIYHLQLFEELRRLAPITSDPTEAAAVGAVEASFKCCSGAIIVLTKSGRS
 AHQVARYRPRAPIIAVTRNPQTARQAHLRYGIFVLCKDAVLNAWAEDVDLRVNLAM
 DVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPV

Purity >85% by SDS-PAGE

Applications Enzyme Activity, SDS-PAGE

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/mL (determined by absorbance at 280nm)

Storage Buffer 20mM Tris-HCl buffer (pH8.5) containing 0.2M NaCl, 1mM DTT, 30% glycerol

GENE INFORMATION

Gene Name [Pkm pyruvate kinase, muscle \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Pkm](#)

Synonyms Pkm; pyruvate kinase, muscle; Pk3; Pk-2; Pk-3; Pkm2

Gene ID [18746](#)

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mRNA Refseq [NM_011099](#)

Protein Refseq [NP_035229](#)

UniProt ID [P52480](#)

SDS-PAGE



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