

Recombinant Full Length Human PKM Protein, C-Flag-tagged

Cat. No. PKM-1018HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PKM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.9 kDa
AA Sequence	MSKPHSEAGTAFIQTTQQLHAAMADTFLEHMCRLDIDSPPTARNTGIICTIGPASRSV ETLKEMIKSGMN VARLNFSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTK GPEIRTGLIKSGSTAEEVLKKGATL KITLDNAYMEKCDENILWLDYKNICKVVEVGSKI YVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVN LPGAAVDLPVSEKDIQDLK FGVEQDVDMVFASFIRKASDVHEVRKVLGEKKGNIKIISKIENHEGVRRF DEILEASD

 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

GIMVARGDLGIEIPAEEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEG
SDVAN AVLDGADCIMLSGETAKGDYPLEAVRMQHIAAREAEAMFHRKLFEELVRA
SSHSTDLMAMAMGSVEAS YKCLAAALIVLTESGRSAHQVARYRPRAPIIAVTRNPQ
TARQAHLYRGIFPVLCCKDPVQEAWAEDVDLRV
NFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVPTTRTRPLEQKLISEED
LAANDILDYKDDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus
Full Length	Full L.

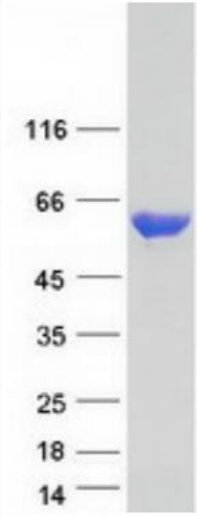
GENE INFORMATION

Gene Name	PKM pyruvate kinase M1/2 [Homo sapiens (human)]
Official Symbol	PKM

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Synonyms	PK3; TCB; p58; OIP3; PKM2; CTHBP; THBP1; HEL-S-30
Gene ID	5315
mRNA Refseq	NM_182471.4
Protein Refseq	NP_872271.1
MIM	179050
UniProt ID	P14618
 Coomassie blue staining of purified PKM protein.	