

Product datasheet for PH301855

PKM2 (PKM) (NM_002654) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PKM2 MS Standard C13 and N15-labeled recombinant protein (NP_002645)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201855
Predicted MW:	57.9 kDa
Protein Sequence:	>RC201855 protein sequence Red=Cloning site Green=Tags(s)

MSKPHSEAGTAFIQQLHAAMADTFLEHMCRLDIDSPITARNTGIICTIGPASRSVETLKEMIKSGMN
VARLNFSGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATL
KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKADFLVTEVENGGLGSKKGVN
LPGAAVDLPAVSEKDIQDLKFGVEQDVDMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRFF
DEILEASDGIMVARGDLGIEIPAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN
AVLDGADCIMLSGETAKGDYPLEAVRMQHLLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEAS
FKCCSGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV
NFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002645
RefSeq Size:	2516
RefSeq ORF:	1593



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Synonyms: CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1

Locus ID: 5315

UniProt ID: [P14618](#), [V9HWB8](#)

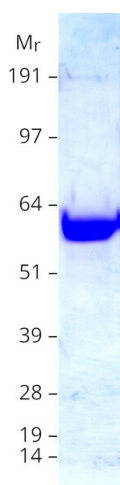
Cytogenetics: 15q23

Summary: 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. [provided by RefSeq, May 2011]

Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus

Product images:



Coomassie blue staining of purified PKM protein (Cat# [TP301855]). The protein was produced from HEK293T cells transfected with PKM cDNA clone (Cat# [RC201855]) using MegaTran 2.0 (Cat# [TT210002]).