

PKM2 Protein, Human (420 a.a, His)

Cat. No.:	HY-P7803
Synonyms:	rHuPyruvate Kinase M2/PKM2, His; Pyruvate Kinase M2; PKM2; CTHBP; OIP-3; THBP1
Species:	Human
Source:	E. coli
Accession:	P14618-1 (L61-E480)
Gene ID:	5315
Molecular Weight:	Approximately 55 kDa

PROPERTIES

AA Sequence	<pre> L K E M I K S G M N V A R L N F S H G T H E Y H A E T I K N V R T A T E S F A S D P I L Y R P V A V A L D T K G P E I R T G L I K G S G T A E V E L K K G A T L K I T L D N A Y M E K C D E N I L W L D Y K N I C K V V E V G S K I Y V D D G L I S L Q V K Q K G A D F L V T E V E N G G S L G S K K G V N L P G A A V D L P A V S E K D I Q D L K F G V E Q D V D M V F A S F I R K A S D V H E V R K V L G E K G K N I K I I S K I E N H E G V R R F D E I L E A S D G I M V A R G D L G I E I P A E K V F L A Q K M M I G R C N R A G K P V I C A T Q M L E S M I K K P R P T R A E G S D V A N A V L D G A D C I M L S G E T A K G D Y P L E A V R M Q H L I A R E A E A A I Y H L Q L F E E L R R L A P I T S D P T E A T A V G A V E A S F K C C S G A I I V L T K S G R S A H Q V A R Y R P R A P I I A V T R N P Q T A R Q A H L Y R G I F P V L C K D P V Q E </pre>
Biological Activity	Measured by its ability to couple reaction catalyzed by PKM2 and LDH, detect the consumption of NADH by pyruvate, the product of phosphate (enol) pyruvate monosodium salt hydrate (PEP). Specific activity is ≥ 12.13 pmol/min/ μ g was measured under the conditions described.
Appearance	Solution.
Formulation	Supplied as a 0.2 μ m filter solution of 50 Mm Tris, 1 mM EDTA, trace Imidazole and DTT, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Pyruvate Kinase M2 (PKM2), a multifunctional protein, is exclusively expressed in embryonic and adult dividing/tumor cells. PKM2 is a ubiquitous prototype enzyme present in all tissues during the embryonic stage and is gradually replaced by other isozymic forms in specific tissues during development. Although the primary function of PKM2 is to catabolize glucose, it is involved in many nonglycolytic pathways, influencing the cellular physiology^[1].

REFERENCES

[1]. Gupta V, et, al. Human pyruvate kinase M2: a multifunctional protein. Protein Sci. 2010 Nov;19(11):2031-44.

Caution: Product has not been fully validated for medical applications. For research use only.

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