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**Product Data Sheet**


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Product Name: PKM2 Human  
 Cat. No.: GP22598  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyruvate kinase isozymes M1/M2; EC 2.7.1.40; Pyruvate kinase muscle isozyme; Pyruvate kinase 2/3; Cytosolic thyroid hormone-binding protein; CTHBP; THBP1; M2PK; PKM2; PK3; PK2; PKM; TCB; OIP3; MGC3932; Tumor Type M2 Pyruvate Kinase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSKPHSEAGT AFIQTQQLHA AMADTFLEHM CRLDIDSPPI TARNTGIICT IGPASRSVET LKEMIKSGMN VARLNFSHGT HEYHAETIKN VRTATESFAS DPILYRPVAV ALDTKGPEIR TGLIKGSGTA EVELKKGATL KITLDNAYME KCDENILWLD YKNICKVVEV GSKIYVDDGL ISLQVKQKGA DFLVTEVENG GSLGSKKGVN LPGAAVDLPA VSEKDIQDLK FGVEQDVDMV FASFIRKASD VHEVRKVLGE KGKNIKIISK IENHEGVRRF DEILEASDGI MVARGDLGIE IPAQKVFVLAQ KMMIGRCNRA GKPVICATQM LESMIKKPRP TRAEAGSDVAN AVLDGADCIM LSGETAKGDY PLEAVRMQHL IAREAEAAIY HLQLFEELRR LAPITSDPTE ATAVGAVEAS FKCCSGAIIV LTKSGRSAHQ VARYRPRAPI IAVTRNPQTA RQAHLYRGIF PVLCKDPVQE AWAEDVDLRV NFAMNVGKAR GFFKKGDVVI VLTGWRPGSG FTNTMRVVPV P.		
Formulation	The PKM2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

**Introduction**

Pyruvate kinase is a key enzyme in the glycolytic pathway. The M2 isoenzyme of pyruvate kinase is specifically expressed at high levels in tumor cells, and can be measured in plasma of patients with advanced breast cancer. The marker is useful for measuring disease activity, sensitivity to chemotherapy and recurrence.

**Biological Activity**

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

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The Specific activity is > 25,000 pmol/min/ug. 1 unit will form 1pmol of phospho(enol)pyruvate to pyruvate per minute at pH 7.5 at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PKM2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 551 amino acids (1-531 a.a.) and having a molecular mass of 60.1kDa. The PKM2 is purified by proprietary chromatographic techniques.

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