
Product Data Sheet

Product Name: PKM2 Mouse
 Cat. No.: GP22599
 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 SSGLVPRGSH MGSMPKPHSE AGTAFIQTQQ LHAAMADTFL EHMCRDIDS APITARNTGI ICTIGPASRS VEMLKEMIKS GMNVARLNFS HGTHEYHAET IKNVREATES FASDPILYRP VAVALDTKGP EIRTGLIKGS GTALEVELKKG ATLKITLDNA YMEKCDENIL WLDYKNICKV VEVGSKIYVD DGLISLQVKE KGADFLVTEV ENGGSLGSKK GVNLPGAADV LPAVSEKDIQ DLKFGVEQDV DMVFASFIRK AADVHEVRKV LGEKGKNIKI ISKIENHEGV RRFDEILEAS DGIMVARGDL GIEIPAEEKVF LAQKMMIGRC NRAGKPVICA TQMLESMIKK PRPTRAEGSD VANAVLDGAD CIMLSGETAK GDYPLEAVRM QHLIAREAEA AIYHLQLFEE LRRLAPITSD PTEAAAVGAV EASFKCCSGA IIVLTKSGRS AHQVARYRPR APIIAVTRNP QTARQAHLYR GIFPVLCKDA VLNAWAEDVD LRVNLAMDVG KARGFFKKGD VVIVLTGWRP GSGFTNTMRV VPVP.		
Formulation	PKM2 protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH 8.5), 0.2M NaCl, 1mM DTT and 30% 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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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Specific activity: > 500 units/mg. One unit will convert 1 pmole 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). Please avoid freeze thaw cycles.

Background

PKM2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 554 amino acids (1-531 a.a) and having a molecular mass of 60.2kDa. PKM2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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