

## 32-6996: PKM2 Mouse

**Application :** Functional Assay

**Alternative Name :** 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.

### Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 85% as determined by SDS-PAGE.

**Content :** PKM2 protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH 8.5), 0.2M NaCl, 1mM DTT and 30% glycerol.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMPKPHSE AGTAFIQTQQ LHAAMADTFL EHCRLDIDS APITARNTGI  
ICTIGPASRS VEMLKEMIKS GMNVARLNFS HGTHEYHAET IKNVREATES FASDPILYRP VAVALDTKGP  
EIRTGLIKGS GTAEVELKKG ATLKITLDNA YMEKCDENIL WLDYKNICKV VEVGSKIYVD DGLISLQVKE  
KGADFLVTEV ENGGSLSGSK GVNLPAAVD LPAVSEKDIQ DLKFGVEQDV DMVFASFIRK AADVHEVRKV  
LGEKGKNIKI ISKIENHEGV RRFDEILEAS DGIMVARGDL GIEIPAEEKVF LAQKMMIGRC NRAGKPVICA  
TQMLESMIKK PRPTRAEGSD VANAVALDGAD CIMLSGETAK GDYPLEAVRM QHLIAREAEA AIYHLQLFEE  
LRR LAPITSD PTEAAAVGAV EASFKCCSGA IIVLTSGRS AHQVARYRPR APIIAVTRNP QTARQAHLYR  
GIFPVLCCKDA VLNAWAEDVD LRVNLAMDVG KARGFFKKGD VVIVLTGWRP GSGFTNTMRV VPVP.

### Application Note

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.