

AR09312PU-L

Human PKM2 (1-531, His-tag) - Purified

Alternate names:

CTHBP, Cytosolic thyroid hormone-binding protein, M2-PK, OIP-3, OIP3, Opa-interacting protein 3, PK2, PK3, PKM, Pyruvate kinase 2/3, Pyruvate kinase M1/M2, Pyruvate kinase isozymes M1/M2, Pyruvate kinase muscle, Pyruvate kinase muscle isozyme, THBP1

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

PKM2 is an isoenzyme of the glycolytic enzyme pyruvate kinase. This protein catalyzes the production of pyruvate and ATP from phosphoenolpyruvate. PKM2 interacting with Opa proteins, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, is required for bacterial pathogenesis. It is specifically expressed at high levels in tumor cells, and can be measured in plasma of patients with advanced breast cancer.

Uniprot ID:

[P14618](#)

NCBI:

[NP_002645](#)

GenelD:

[5315](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description:

Recombinant human PKM2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MSKPHSEAGT AFIQTQQLHA AMADTFLEHM CRLDIDSPPI
TARNTGIICT IGPASRSVET LKEMIKSGMN VARLNFSHGT HEYHAETIKN VRTATESFAS
DPILYRPVAV ALDTKGPEIR TGLIKSGSTA EVELKKGATL KITLDNAYME KCDENILWLD
YKNICKVVEV GSKIYVDDGL ISLQVKQKGA DFLVTEVENG GSLGSKKGVN LPGAAVDLPA
VSEKDIQDLK FGVEQDQDMV FASFIRKASD VHEVRKVLGE KGKNIKIISK IENHEGVRRF
DEILEASDGI MVARGDLGIE IPAEEKVFLAQ KMMIGRCNRA GKPVICATQM LESMIKKPRP
TRAEGSDVAN AVLDGADCIM LSGETAKGDY PLEAVRMQHL IAREAEAAIY HLQLFEELRR
LAPITSDPTE ATAVGAVEAS FKCCSGAIIV LTKSGRSAHQ VARYRPRAPI IAVTRNPQTA
RQAHLYRGIF PVLCKDPVQE AWAEDVDLRV NFAMNVGKAR GFFKKGDVVI VLTGWRPGSG
FTNTMRVVPV P

Specific Activity: > 25,000 pmol/min/ug. One unit will convert 1.0 pmole of phospho(enol)pyruvate to pyruvate per minute at pH 7.5 at 37°C.

Molecular weight: 60.1 kDa (551 aa)

- Storage:** Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.
- General Readings:** Zwerschke W., et al. (2009). Exp Cell Res. 315(16):2765-74.
Mazurek S., et al. (2007). Ernst Schering Found Symp Proc. (4):99-124.
- Pictures:** Recombinant human PKM 2 (1-531 aa),
His-tagged: 15% SDS-PAGE (3 µg)

