

Recombinant human PKM protein

Catalog Number: ATGP0429

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-531aa

UniProt No.

P14618

NCBI Accession No.

NP_002645.3

Alternative Names

Pyruvate kinase muscle isoform M2, Pyruvate kinase M1/2, Pyruvate kinase muscle, Cytosolic thyroid hormone-binding protein, CTHBP, Pyruvate kinase 2/3, Threonine-protein kinase PKM2, Thyroid hormone-binding protein 1, THBP1, Opa-interacting protein 3, OIP3, Tumor M2-PK, Tyrosine-protein kinase PKM2, PK2, PK3, PKM2, p58

PRODUCT SPECIFICATION

Molecular Weight

60.1 kDa (551aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

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

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

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

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MSKPHSEAGT AFIQTQQLHA AMADTFLEHM CRLDIDSPPI TARNTGICT 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 IPAEEKVFLAQ KMMIGRCNRA GKPVICATQM LESMIKKPRP TRAEGSDVAN AVLDGADCIM LSGETAKGDY PLEAVRMQHL IAREAEAAIY HLQLFEELRR LAPITSDPTE ATAVGAVEAS FKCCSGAIIV LTKSGRSAHQ VARYRPRAPI IAVTRNPQTA RQAHLYRGIF PVLCKDPVQE AWAEDVDLRV NFAMNVGKAR GFFKKGDVVI VLTGWRPGSG FTNTMRVVPV P

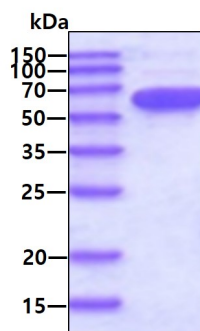
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.