Pyruvate Kinase M2 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Pyruvate kinase isozymes M1/M2, Cytosolic thyroid hormone-binding protein, CTHBP, Opa-interacting protein 3, OIP-3, Pyruvate kinase 2/3, Pyruvate kinase muscle isozyme, Thyroid hormone-binding protein 1, THBP1, Tumor M2-PK, PKM, OIP3, PK2, PK3, PKM2

Cat. No.:
RD172345100 (0.1 mg)

Description

Total 539 AA. MW: 58.9 kDa (calculated). UniProtKB acc.no. P14618 (Ser2-Pro531). N-terminal His-tag (9 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Pyruvate kinase is a glycolytic enzyme. It catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, which results in ATP formation. Isoenzyme M2 is expressed in early fetal tissues and in cancer cells.

Research topic

Oncology

Amino Acid Sequence

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MKHHHHHHAS KPHSEAGTAF IQTQQLHAAM ADTFLEHMCR LDIDSPPITA RNTGIICTIG PASRSVETLK EMIKSGMNVA
RLNFSHGTHE YHAETIKNVR TATESFASDP ILYRPVAVAL DTKGPEIRTG LIKGSGTAEV ELKKGATLKI TLDNAYMEKC
DENILWLDYK NICKVVEVGS KIYVDDGLIS LQVKQKGADF LVTEVENGGS LGSKKGVNLP GAAVDLPAVS EKDIQDLKFG
VEQDVDMVFA SFIRKASDVH EVRKVLGEKG KNIKIISKIE NHEGVRRFDE ILEASDGIMV ARGDLGIEIP AEKVFLAQKM
MIGRCNRAGK PVICATQMLE SMIKKPRPTR AEGSDVANAV LDGADCIMLS GETAKGDYPL EAVRMQHLIA REAEAAIYHL
QLFEELRRLA PITSDPTEAT AVGAVEASFK CCSGAIIVLT KSGRSAHQVA RYRPRAPIIA VTRNPQTARQ AHLYRGIFPV
LCKDPVQEAW AEDVDLRVNF AMNVGKARGF FKKGDVVIVL TGWRPGSGFT NTMRVVPVP
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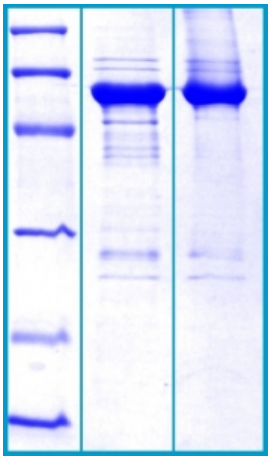
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >90%

SDS-PAGE gel



14% SDS-PAGE separation of Hu Pyruvate kinase M2:

1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa

2. reduced and heated sample, 2.5µg/lane

3. non-reduced and non-heated sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5

Reconstitution

Add 200µl of deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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