

Recombinant human Muscle Phosphofructokinase/PFKM protein

Catalog Number: ATGP0536

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-780aa

UniProt No.

P08237

NCBI Accession No.

NP_000280

Alternative Names

6-Phosphofructokinase muscle type, GSD7, PFK-1, PFK1, PFKA, PFKX, 6-Phosphofructokinase, muscle type 6 Phosphofructokinase Muscle Type, EC 2.7.1.11, MGC8699, PFKL, PFKM, PFKP, Phosphofructo 1 Kinase Isozyme A, Phosphofructokinase 1, Phosphofructokinase M, Phosphofructokinase, muscle, Phosphofructokinase, muscle type, Phosphofructokinase, polypeptide X, Phosphohexokinase.

PRODUCT SPECIFICATION

Molecular Weight

87.3 kDa (800aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 0.2 M NaCl, and 20% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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.

BACKGROUND

Description

PFKM is regulatory glycolytic enzymes that convert fructose 6-phosphate and ATP into fructose 1, 6-bisphosphate (through PFK-1), fructose 2, 6-bisphosphate (through PFK-2) and ADP. Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. Mutations in this gene have been associated with glycogen

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storage disease type VII, also known as Tarui disease. Recombinant human PFKM protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

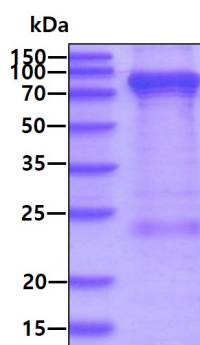
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EWSDLLSDLQ KAGKITDEEA TKSSYLNIVG LVGSIDNDFC GTDMTIGTDS ALHRIMEIVD AITTTAQSHQ RTFVLEV MGR
HCGYLALVTS LSCGADWVFI PECPPDDDWE EHLCRRLSET RTRGSRLNII IVAEGAIDKN GKPITSEDIK NLVVKRLGYD
TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD TPACVVSLSG NQAVRLPLME CVQVKDVT K AMDEKKFDEA
LKLRGRSFMN NWEVYKLLAH VRPPVSKSGS HTVAVMNVGA PAAGMNAAVR STVRIGLIQG NRVLVHDGF EGLAKGQIEE
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HLVQKMKT TV KRGLVLRNEK CNENYTTDFI FNLYSEEGKG IFDSRKNVLG HMQQGGSP TP FDRNFATKMG AKAMNWMSGK
IKESYRNGRI FANTPDSCV LGMRKRALVF QPVAELKDQT DFEHRIPKEQ WWLKL RPILK ILAKYEIDLD TSDHAHLEHI
TRKRSGEAAV

General References

Martinez-Costa OH., et al. (2007) FEBS Lett. 581(16):3033-8.
Kim JW., et al. (2004) Mol Cell Biol. 24(13):5923-36.

DATA

SDS-PAGE



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