

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

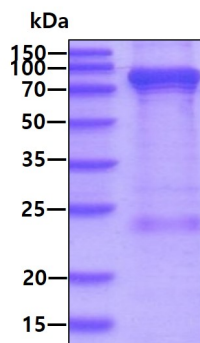
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EWSDLLSDLQ KAGKITDEEA TKSSYLNIIV LVGSIDNDFC GTDMTIGTDS ALHRIMEIVD AITTTAQSHQ RTFVLEVMGR
HCGYLALVTS LSCGADWVFI PECPPDDDWE EHLCRRLSET RTRGSRLNII IVAEGAIKDN GKPITSEDIK NLVVKRLGYD
TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD TPACVVSLSG NQAVRLPLME CVQVTKDVTM AMDEKKFDEA
LKLRGRSFMN NWEVYKLLAH VRPPVSKSGS HTVAVMNVGA PAAGMNAAVR STVRIGLIQG NRVLVHDGF EGLAKGQIEE
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NNVPGSDFSV GADTALNTIC TTCDRIKQSA AGTKRRVFII ETMGGYCYL ATMAGLAAGA DAAYIFEPPF TIRDLQANVE
HLVQKMKTTV KRGLVLRNEK CNENYTTDFI FNLYSEEGKG IFDSRKNVLG HMQQGGSPPT FDRNFATKMG AKAMNWMSGK
IKESYRNGRI FANTPDSGCV LGMRKRALVF QPVAELKDQT DFEHRIPKEQ WWLKLRPILK 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



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