

AR09446PU-L

Human PFKM (1-780, His-tag) - Purified

Alternate names:

6-phosphofructokinase muscle type, GSD7, PFK-1, PFK-A, PFK1, PFKX, Phosphofructo-1-kinase isozyme A, Phosphofructokinase 1, Phosphofructokinase-M, Phosphohexokinase

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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 storage disease type VII, also known as Tarui disease.

Uniprot ID:

[P08237](#)

NCBI:

[NP_000280](#)

GenelD:

[5213](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 5 mM DTT, 0.2 M NaCl, and 20% glycerol

Description:

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

AA Sequence:

MGSSHHHHH SSGLVPRGSH MTHEEHAAK TLGIGKAIIV LTSGGDAQGM NAAVRAVVRV
GIFTGARVFF VHEGYQGLVD GGDHIKEATW ESVMMLQLG GTVIGSARCK DFREREGRRLR
AAYNLVKRGI TNLCVIGGDG SLTGADTFRS EWSDLLSDLQ KAGKITDEEA TKSSYLNIIVG
LVGSIDNDFC GTDMTIGTDS ALHRIMEIVD AITTTAQSHQ RTFVLEVMMGR HCGYLALVTS
LSCGADWVFI PECPPDDWE EHLCRRLSET RTRGSRLNII IVAEGAIDKN GKPITSEDIK
NLVVKRLGYD TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD TPACVVSLSG
NQAVRLPLME CVQVTKDVTM AMDEKKFDEA LKLRGRSFMN NWEVYKLLAH VRPPVSKSGS
HTVAVMNVGA PAAGMNAAVR STVRIGLIQG NRVLVVDHGF EGLAKGQIEE AGWSYVGWWT
GQGGSKLGTK RTLPKKSFEQ ISANITKFNI QGLVIIGGFE AYTGGLELME GRKQFDELICI
PFVVIPATVS NNVPGSDFSV GADTALNTIC TTCDRIKQSA AGTKRRVFII ETMGGYCGYL
ATMAGLAAGA DAAYIFEEPF TIRDLQANVE HLQKMKTTV KRGLVLRNEK CNENYTTDFI
FNLYSEEGKG IFDSRKNVLG HMQQGGSPTP FDRNFATKMG AKAMNWMGSK IKESYRNGRI
FANTPDSCGV LGMKRKALVF QPVAELKDQT DFEHRIPKEQ WWLKLRLPKL ILAKYEIDLD
TSDHAHLEHI TRKRSGEAAV

Molecular weight: 87.3 kDa (800 aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

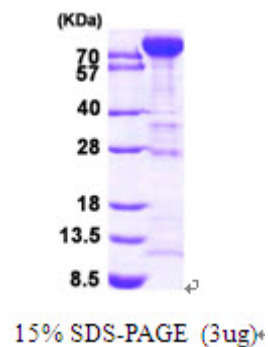
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:



Recombinant human PFKM, 1-780 aa, His-tagged: 15% SDS-PAGE (3 ug)

