

Recombinant human PGM1 protein

Catalog Number: ATGP3158

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-562aa

UniProt No.

P36871

NCBI Accession No.

NP_002624

Alternative Names

Phosphoglucomutase-1 isoform 1, CDG1T, GSD14

PRODUCT SPECIFICATION

Molecular Weight

63.8 kDa (585aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% 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

PGM1 also known as Phosphoglucomutase-1 isoform 1. PGM1 belongs to the phosphohexose mutase family. There are several PGM isozymes, which are catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, PGM1 isozymes predominate, representing about 90% of total PGM activity. Defects in PGM1 are the cause of glycogen storage disease type 14. Recombinant human PGM1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMVKIVTV KTQAYQDQKP GTSGLRKRVK VFQSSANYAE NFIQSIISTV EPAQRQEATL
VVGGDGRFYM KEAIQLIARI AAANGIGRLV IGQNGILSTP AVSCIIRKIK AIGGIILTAS HNPGGPNGDF GIKFNISNGG
PAPEAITDKI FQISKTIEEY AVCPDLKVDL GVLGKQQFDL ENKFKPFTVE IVDSVEAYAT MLRSIFDFSA LKELLSGPNR
LKIRIDAMHG VVGPPYVKIL CEELGAPANS AVNCPLEDF GGHPDPNLT YAADLVETMK SGEHDFGAFF DGDGDRNMIL
GKHGFFVNPS DSVAVIAANI FSIYPFQQTG VRGFARSMPT SGALDRVASA TKIALYETPT GWKFFGNLMD ASKLSLCGEE
SFGTGSDBIR EKDGLWAVLA WLSILATRKQ SVEDILKDHV QKYGRNFFTR YDYEEVEAEG ANKMMKDLEA LMFDRSFVKG
QFSANDKVYT VEKADNFEYS DPVDGSISRN QGLRLIFTDG SRIVFRLSGT GSAGATIRLY IDSEKDVAK INQDPQVMLA
PLISIALKVS QLQERTGRTA PTVIT

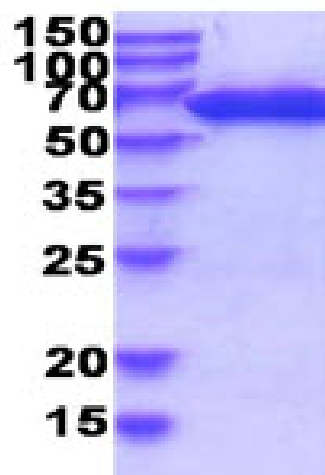
General References

Gururaj A., et al (2004). *Oncogene*. 23(49):8118-27.
Stojkovic T., et al (2009). *N. Engl. J. Med.* 361(4):425-7.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)