

PGM1, 1-562 aa, Human, His tag, E.coli

Cat.NO.: TP03384

3th Edition

Synonyms:CDG1T, GSD14

Description:PGM1 also known as Phosphoglucosyltransferase-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

Form:Liquid. In Phosphate Buffered Saline(pH 7.4) containing 10% glycerol

Molecular Weight:63.8 kDa (585aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMVKIVTVKTQAYQDQKPGTSGLRKRVKVFQSSANYAENFIQSIISTVEPAQR
QEATLVVGGDGRFYMKEAIQLIARIAAANGIGRLVIGQNGILSTPAVSCIIRKIKAIIGGIILTASHNPGGPNNGDFGKFNIS
NGGPAPEAITDKIFQISKTIIEYAVCPDLKVDLGLVGLKQQFDLENKFKPFTVEIVDSVEAYATMLRSIFDFSALKELLS
GPNRLKIRIDAMHGTVVGPYVKKILCEELGAPANSVNCVPLEDFGGHHPDPNLTYAADLVETMKSGEHDFGAFFDG
DGDRNMILGKHGFFVNPSSVAVIAANIFSIPYFQQTGVRGFARSMPTSGALDRVASATKIALYETPTGWKFFGNLM
DASKLSLCGEESFGTGSDFHIREKDGLWAVLAWLSILATRQSVEDILKDHQKYGRNFFTRYDYEEVEAEGANKM
MKDLEALMFDRSFVGKQFSANDKVYTVKADNFEYSDPVDGSIERNQGLRLIFTDGSRIVFRSLSGTGSAGATIRLYI
DSYEKDVAKINQDPQVMLAPLISIALKVSQQLQERTGRTAPTIVT

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.