
Product Data Sheet

Product Name: PGM1 Human

Cat. No.: GP22079

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PGM1; Phosphoglucomutase 1; Glucose Phosphomutase 1; EC 5.4.2.2; PGM 1; CDG1T; GSD14; Phosphoglucomutase-1; EC 5.4.2.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMVKIVTV KTQAYQDQKP GTSGLRKRVK VFQSSANYAE NFIQSIISTV EPAQRQEATL VVGGDGRFYM KEAIQLIARI AAANGIGRLV IGQNGILSTP AVSCIIRKIK AIGGIILTAS HNPGGPNGDF GIKFNISNGG PAPEAITDKI FQISKTIEEY AVCPDLKVDL GVLGKQQFDL ENKFKPFTVE IVDSVEAYAT MLRSIFDFSA LKELLSGPNR LKIRIDAMHG VVGOPYVKKIL CEELGAPANS AVNCVPLEDF GGHPDPNLT YAADLVETMK SGEHDFGAAF DGDGDRNMIL GKHGFFVNPS DSVAVIAANI FSIPYFQQTG VRGFARSMPT SGALDRVASA TKIALYETPT GWKFFGNLMD ASKLSLCGEE SFGTGSDBIR EKDGLWAVLA WLSILATRKQ SVEDILKDHV QKYGRNFFTR YDYEEVEAEG ANKMMKDLEA LMFDRSFVGK QFSANDKVYT VEKADNFEYS DPVDGSISRN QGLRLIFTDG SRIVFRLSGT GSAGATIRLY IDSYEKDVAK INQDPQVMLA PLISIALKVS QLQERTGRTA PTVIT.</p>		
Formulation	PGM1 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Phosphoglucomutase-1 also known as PGM1 is a member of the phosphohexose mutase family. There are more than a few PGM isozymes, which catalyze the transfer of phosphate between the 1&6 positions of glucose. In nearly all cell types, PGM1 isozymes predominate, representing around 90% of total PGM activity. It has been found that defects in PGM1 are the cause of glycogen storage disease type 14.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PGM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 585 amino acids (1-562 a.a) and having a molecular mass of 63.8kDa. PGM1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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