
Product Data Sheet

Product Name: PFKM Human
 Cat. No.: GP22578
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.7.1.11; GSD7; PFK-1; PFK1; PFKA; PFKX; Phosphofructokinase-M; Phosphofructokinase 1; Phosphohexokinase; Phosphofructo-1-kinase isozyme A; MGC8699; PFKM.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MTHEEHHA AK TLGIGKAI AV LTSGGDAQGM NAAVRAVVRV GIFTGARVFF VHEGYQGLVD GGDHIKEATW ESVSMMLQLG GTVIGSARCK DFREREGRLR AAYNLVKRGI TNLCVIGGDG SLTGADTFRS EWSDLLSDLQ KAGKITDEEA TKSSYLNIVG LVGSIDNDFC GTDMTIGTDS ALHRIMEIVD AITTTAQSHQ RTFVLEVMGR HCGYLALVTS LSCGADWVFI PECPPDDDWE EHLCRRLSET RTRGSRLNII IVAEGAIDKN GKPITSEDIK NLVVKRLGYD TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD TPACVVSLSG NQAVRLPLME CVQVTKDVTK AMDEKKFDEA LKLRGRSFMN NWEVYKLLAH VRPPVSKSGS HTVAVMNVGA PAAGMNAAVR STVRIGLIQG NRVLVVDHGF EGLAKGQIEE AGWSYVGGWT GQGGSKLGTK RTLPKKSFEQ ISANITKFNI QGLVIIGGFE AYTGGLELME GRKQFDEL CI PFVVIPATVS NNVPGSDFSV GADTALNTIC TTCDRIKQSA AGTKRRVFII ETMGGYCGYL ATMAGLAAGA DAAYIFEEP F TIRDLQANVE HLVQKMKT TV KRGLVLRNEK CNENYTTDFI FNLYSEEGKG IFDSRKNVLG HMQQGGSPTP FDRNFATKMG AKAMNWMSGK IKESYRNGRI FANTPDSGCV LGMRKRALVF QPVAELKDQT DFEHRIPKEQ WWLKL RPILK ILAKYEIDLD TSDHAHLEHI TRKRSGEAAV.</p>		
Formulation	PFKM Human solution containing 20mM Tris HCl pH-8, 5mM DTT, 0.2M NaCl and 20% glycerol.		

Introduction

PFKM is a regulatory glycolytic enzyme that converts fructose 6-phosphate and ATP into fructose 1,6-bisphosphate (through PFK-1), fructose 2,6-bisphosphate (through PFK-2)

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

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and ADP. Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. Mutations in PFKM gene have been related with glycogen storage disease type VII, also identified as Tarui disease.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

Background

PFKM Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 800 amino acids (1-780 a.a.) and having a molecular mass of 87.3 kDa. PFKM protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography.

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