

PFKM, 1-780 aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP03365

3th Edition

Synonyms:6-Phosphofructokinase, muscle type, GSD7, PFK-1, PFK1, PFKA, PFKX

Description: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.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 5mM DTT 0.2 M NaCl, and 20% glycerol

Molecular Weight:87.3 kDa (800aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMTHEEHAAKTLGIGKAIIVLTSGGDAQGMNAAVRAVVRVVGIFTGARVFFVHEGY
QGLVDGGDHIKEATWESVSMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKGITNLCVIGGDGSLTGADTFRS
EWSDLLSDLQKAGKITDEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVM
GRHCGYLALVTSLSGADWVFIPECPDDDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIKNLVVKR
LGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRLPLMECVQVTKDVTKA
MDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVSKSGSHTVAVMNVGAPAAGMNAAVRSTVRIGLIQGNRVLVV
HDGFEGLAQGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKFNIQGLVIIGGFAYTGGLELMGR
KQFDELCPFVVIPATVSNNVPGSDFSVGADTALNTICTTCDRIKQSAAGTKRRVFIETMGGYCGYLATMAGLAAGA
DAAYIFEFPFTIRDLQANVEHLVQKMKTTVKRGLVLRNEKCNENYTTDFIFNLYSEEGKGFDSRKNVLGHMQQGGS
PTPFDRNFATKMGAKAMNWMMSGKIKESYRNGRIFANTPDSGCVLGMKRKRALVFQPVVELKDQTD FEHRIPKEQW
WLKLRPILKILAKYEIDLDTSDHAHLEHITRKRSGEAAV

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

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.