

GPI, human recombinant protein**Glucose-6-phosphate isomerase, GPI, AMF, GNPI, NLK, PGI, PHI, SA36.****Catalog # PBV11381r****Specification****GPI, human recombinant protein - Product info**

Primary Accession	P06744
Concentration	1
Calculated MW	65.3 kDa (578 aa, 1-558 aa + His Tag) kDa

GPI, human recombinant protein - Additional Info

Gene ID	2821
Gene Symbol	GPI
Other Names	
Glucose-6-phosphate isomerase, GPI, AMF, GNPI, NLK, PGI, PHI, SA36.	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity is > 90 units/mg
Sequence	MGSSHHHHHH SSGLVPRGSH MAALTRDPQF KLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMPEVNKVLDKMK FCQVRVSGD WKGYTGKTIT DVINIGIGGS DLGPLMVTEA LKPYSSGGPR VWYVSNIDGT HIAKTLAQLN PESSLFIIAS KTFTTQETIT NAETAKEWFL QAAKDPSAVA KHFVALSTNT TKVKEFGIDP QNMFEFWDWV GGRYSLWSAI GLSIALHVGF DNFEQLLSGA HWMQDHFRTT LEKNAPVLL ALLGIWYINC FGCETHAMLP YDQYLHRFAA YFQQGDMESN GKYITKSGTR VDHQTGPIVW GEPGTNGQHA FYQLIHQGTK MIPCDFLIPV QTQHPKIRKGL HHKILLANFL AQTEALMRGK STEEARKELQ AAGKSPEDLE RLLPHKVFEG NRPTNSIVFT KLTPFMLGAL VAMYEHKIFV QGIWDINSF DQWGVLELGKQ LAKKIEPELD GSAQVTSHDA STNGLINFIK QQREARVQ

Target/Specificity

GPI

Format

Liquid

Storage

-20°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol and 1 mM DTT

GPI, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GPI, human recombinant protein - Images

GPI, human recombinant protein - Background

Glucose-6-phosphate isomerase, also known as GPI, belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. Mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons. Recombinant human GPI, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

GPI, human recombinant protein - References

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Ota T., et al. Nat. Genet. 36:40-45(2004).
Grimwood J., et al. Nature 428:529-535(2004).
Walker J.I.H., et al. Genomics 7:638-643(1990).