

---

**Glucose-6-phosphate isomerase, 1-558aa, , Human, His tag, E.coli**

**Cat.NO.: TP02262**

3th Edition

**Synonyms:**GPI, AMF, GNPI, NLK, PGI, PHI, SA36

**Description:**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.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.

**Molecular Weight:**65.3kDa (578aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLLTNTNHGHILVD  
YSKNLVTEDVMRMLVDLAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRSNTPILVDGKDVMPEVNKVLDKM  
KSFCQVRVSGDWKGYTGKTIITDVINIGIGGSDLGPLMVTEALKPYSSGGPRVWYVSNIIDGTHIAKTLAQLNPESLFI  
IASKTFTTQETITNAETAKEWFLQAADPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSI  
ALHVGFDNFEQLLSGAHWMDQHFRTTPEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHRFAAYFQQGDMS  
NGKYITKSGTRVDHQTGPVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEALM  
RGKSTEEARKELQAAGKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPTFMLGALVAMYEHKIFVQGIWDINSFDQWG  
VELGKQLAKKIEPELDGSAQVTSHDASTNGLINFIKQQREARVQ

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.