

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:

MGSSHHHHHHSSGLVPRGSHMAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTLTNTNHGHILVD
YSKNLVTEDVMRMLVDLAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRNTPILVDGKDVMPEVNKVLDKM
KSFCQVRVSGDWKGYTGKTIITDVINIGIGGSDLGPLMVTEALKPYSSGGPRVWYVSNIIDGTHIAKTLAQLNPESLFI
IASKTFTTQETITNAETAKEWFLQAADPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSI
ALHVGFDNFEQLLSGAHWMDQHFRTTPLEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHRFAAYFQQGDMS
NGKYITKSGTRVDHQTGPVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEALM
RGKSTEEARKELQAAGKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPFMLGALVAMYEHKIFVQGIIWDINSFDQWG
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.