

Glucose-6-Phosphate Isomerase Recombinant Protein | GPI recombinant protein

Recombinant Human Glucose-6-Phosphate Isomerase

CATALOG # AAA38737	HOST E Coli
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PRODUCT SYNONYMS

Glucose-6-Phosphate Isomerase; Recombinant Human Glucose-6-Phosphate Isomerase; GPI Human; Glucose-6-Phosphate Isomerase Human Recombinant; Glucose-6-phosphate isomerase; Phosphoglucose isomerase; Phosphohexose isomerase; Autocrine motility factor; Neuroleukin; Sperm antigen 36; GPI; PGI; PHI; AMF; NLK; SA-36; GNPI; GPI recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The GPI solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol. Sterile Filtered colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMAA LTRDPQFQKL QQWYREHRSE LNLRRFLDAN KDRFNHFSLT LNTNHGHILV DYSKNLVTED VMRLVDLAK SRGVEAARER MFNGEKINYT EGRAVLHVAL RNRNTPILV DGKDVMEVN KVLDMKSFC QVRSGDWKG YTGKTITDVI NIGIGGSDLG PLMVTEALKP YSSGGPRVWY VSNIDGTHIA KTLAQLNPES SLFIIASKTF TTQETITNAE TAKEWFLQAA KDPSAVAKHF VALSTNTTKV KEFGIDPQNM FEFWDWVGGR YSLWSAIGLS IALHVGFDNF EQLLSGAHWM DQHFRTTPLE KNAPVLLALL GIWYINCFGC ETHAMLPYDQ YLHRFAAYFQ QGDMESNGKY ITKSGTRVDH QTGPIVWGEP GTNGQHAFYQ LIHQGTMIP CDFLIPVQTQ HPIRKGLHHK ILLANFLAQT EALMRGKSTE EARKELQAAG KSPEDLERLL PHKVFEGNRP TNSIVFTKLT PFMLGALVAM YEHKIFVQGI IWDINSFDQW GVELGKQLAK KIEPELDGSA QVTSHDASTN GLINFIKQQR EARVQ
Sequence Length	558
Preparation and Storage	GPI although stable 4 degree C for 4 weeks, should be stored desiccated below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GPI recombinant protein	Description: GPI Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 578 amino acids (1-558 a.a.) and having a molecular mass of 65.3kDa. The GPI is purified by proprietary chromatographic techniques. Introduction: Glucose-6-phosphate isomerase (GPI) is a part of the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. GPI is a dimeric enzyme which catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. Mammalian GPI also functions as a tumor-secreted cytokine and an angiogenic factor (AMF) which stimulates endothelial cell motility. In addition, GPI is a neurotrophic factor (Neuroleukin) for spinal and sensory neurons. GPI performs in different capacities inside and outside the cell. In the cytoplasm, GPI is involved in glycolysis and gluconeogenesis, while outside the cell it acts as a neurotrophic factor for spinal and sensory neurons. Defects in the GPI gene cause the nonspherocytic hemolytic anemia and a severe enzyme deficiency can be linked to hydrops fetalis, immediate neonatal death and neurological impairment.
Product Categories/Family for GPI recombinant protein	Enzymes; Isomerase

NCBI AND UNIPROT INFORMATION

NCBI GI #	18201905
NCBI GeneID	2821
NCBI Accession #	NP_000166.2
NCBI GenBank Nucleotide #	NM_000175.3
UniProt Accession #	P06744; Q9BRD3; Q9BSK5; Q9UHE6; B4DG39
Molecular Weight	64,325 Da
NCBI Official Full Name	glucose-6-phosphate isomerase isoform 2
NCBI Official Synonym Full Names	glucose-6-phosphate isomerase
NCBI Official Symbol	GPI
NCBI Official Synonym Symbols	AMF; NLK; PGI; PHI; GNPI; SA36; SA-36
NCBI Protein Information	glucose-6-phosphate isomerase; autocrine motility factor; glucose phosphate isomerase; hexose monophosphate isomerase; hexosephosphate isomerase; neuroleukin; oxoisomerase; phosphoglucose isomerase; phosphohexomutase; phosphohexose isomerase; phosphosaccharomutase; sperm antigen 36; sperm antigen-36
UniProt Protein Name	Glucose-6-phosphate isomerase
UniProt Gene Name	GPI
UniProt Synonym Gene Names	GPI; AMF; NLK; PGI; PHI; SA-36
UniProt Entry Name	G6PI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/gpi-recombinant-protein-e-coli/38737>