Recombinant Human GPI, His-tagged

Cat. No. GPI-27616TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 37-297 of Human Glucose 6 phosphate isomerase with an N terminal His tag. Predicted MWt: 30 kDa;
Species	Human
Source	E.coli
ProteinLength	37-297 a.a.
Description	This gene 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. The protein functions in different capacities inside and outside the cell. In the cytoplasm, the gene product is involved in glycolysis and gluconeogenesis, while outside the cell it functions as a neurotrophic factor for spinal and sensory neurons. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 161 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	FNHFSLTLNTNHGHILVDYSKNLVTEDVMRMLVDLAKSRG VEAARERMFNGEKINY TEGRAVLHVALRNRSNTPILVD GKDVMPEVNKVLDKMKSFCQRVRSGDWKGYTGK TITDV INIGIGGSDLGPLMVTEALKPYSSGGPRVWYVSNIDGTHI AKTLAQLNPESSL FIIASKTFTTQETITNAETAKEWFL QAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNM FEFWD WVGGRYSLWSAIGLSIALHVGFDNFEQLL
Sequence Similarities	Belongs to the GPI family.

GENE INFORMATION

Gene Name	GPI glucose-6-phosphate isomerase [Homo sapiens]
Official Symbol	GPI
Synonyms	GPI; glucose-6-phosphate isomerase; glucose phosphate isomerase; AMF; NLK;
Gene ID	2821
mRNA Refseq	NM_000175
Protein Refseq	NP_000166
MIM	172400
Uniprot ID	P06744
Chromosome Location	19q13.1

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem;
Function	cytokine activity; glucose-6-phosphate isomerase activity; growth factor activity; isomerase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA