

## Recombinant Human GPI, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 37-297 of Human Glucose 6 phosphate isomerase with an N terminal His tag. Predicted MWt: 30 kDa;
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	37-297 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitute with 161 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GPI glucose-6-phosphate isomerase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GPI</a>
<b>Synonyms</b>	GPI; glucose-6-phosphate isomerase; glucose phosphate isomerase; AMF; NLK;
<b>Gene ID</b>	<a href="#">2821</a>
<b>mRNA Refseq</b>	<a href="#">NM_000175</a>
<b>Protein Refseq</b>	<a href="#">NP_000166</a>
<b>MIM</b>	<a href="#">172400</a>
<b>Uniprot ID</b>	<a href="#">P06744</a>
<b>Chromosome Location</b>	19q13.1

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**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;

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