

## Active Recombinant Human Phosphoglucose Isomerase

Cat. No. PGI-32H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human Phosphoglucose Isomerase without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a member of the glucose phosphate isomerase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In the cytoplasm, the gene product functions as a glycolytic enzyme (glucose-6-phosphate isomerase) that interconverts glucose-6-phosphate and fructose-6-phosphate. Extracellularly, the encoded protein (also referred to as neuroleukin) functions as a neurotrophic factor that promotes survival of skeletal motor neurons and sensory neurons, and as a lymphokine that induces immunoglobulin secretion. The encoded protein is also referred to as autocrine motility factor based on an additional function as a tumor-secreted cytokine and angiogenic factor. 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. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Clear liquid
<b>Bio-activity</b>	250 U/mg

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<b>Purity</b>	≥ 95% by SDS-PAGE
<b>Stability</b>	At least 2 years
<b>Storage</b>	Store it at -20 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	6.2 mg/mL
<b>GENE INFORMATION</b>	
<b>Gene ID</b>	2821
<b>Gene Name</b>	GPI glucose-6-phosphate isomerase [ Homo sapiens (human) ]
<b>Official Symbol</b>	2821
<b>Synonyms</b>	GPI; glucose-6-phosphate isomerase; AMF; NLK; PGI; PHI; GNPI; SA36; SA-36; CNSHA4; glucose-6-phosphate isomerase autocrine motility factor hexose monophosphate isomerase hexosephosphate isomerase neuroleukin oxoisomerase phosphoglucose isomerase phosphohexomutase phosphohexose isomerase phosphosaccharomutase sperm antigen-36 EC 5.3.1.9
<b>mRNA Refseq</b>	NM_000175
<b>Official Symbol 2</b>	GPI
<b>Gene ID 2</b>	2821
<b>Gene Name 2</b>	GPI glucose-6-phosphate isomerase [ Homo sapiens (human) ]
<b>mRNA Refseq 2</b>	NM_000175

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**Protein Refseq 2** NP\_000166

**MIM 2** 172400

**UniProt ID 2** P06744

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