

## Recombinant Human GPI Protein, His-tagged

Cat. No. GPI-002H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human GPI protein (1-434) with a C-terminal His tag was expressed in E. coli citrullinated by PAD2.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-434
<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>Molecular Mass</b>	66 kDa

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<b>Purity</b>	≥90% as determined by SDS-PAGE
<b>Stability</b>	≥ 1 year
<b>Storage</b>	At -80 centigrade.
<b>Storage Buffer</b>	25 mM Tris, pH 7.0, with 100 mM sodium chloride, and 10% glycerol
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GPI glucose-6-phosphate isomerase [ Homo sapiens (human) ]
<b>Official Symbol</b>	GPI
<b>Synonyms</b>	GPI; glucose-6-phosphate isomerase; AMF; NLK; PGI; PHI; GNPI; SA36; SA-36; 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>Gene ID</b>	2821
<b>mRNA Refseq</b>	NM_000175
<b>Protein Refseq</b>	NP_000166
<b>MIM</b>	172400
<b>UniProt ID</b>	P06744

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