

Active Recombinant Human Phosphoglucose Isomerase

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

SPECIFICATION

Product Overview	Active Recombinant Human Phosphoglucose Isomerase without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Clear liquid
Bio-activity	250 U/mg

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Purity	≥ 95% by SDS-PAGE
Stability	At least 2 years
Storage	Store it at -20 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	6.2 mg/mL

GENE INFORMATION

Gene ID	2821
Gene Name	GPI glucose-6-phosphate isomerase [Homo sapiens (human)]
Official Symbol	2821
Synonyms	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
mRNA Refseq	NM_000175
Official Symbol 2	GPI
Gene ID 2	2821
Gene Name 2	GPI glucose-6-phosphate isomerase [Homo sapiens (human)]
mRNA Refseq 2	NM_000175

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Protein Refseq 2	NP_000166
MIM 2	172400
UniProt ID 2	P06744

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