Recombinant Human GPI Protein, His-tagged

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

SPECIFICATION

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

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Purity	≥90% as determined by SDS-PAGE
Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	25 mM Tris, pH 7.0, with 100 mM sodium chloride, and 10% glycerol

GENE INFORMATION

Gene Name	GPI glucose-6-phosphate isomerase [Homo sapiens (human)]
Official Symbol	GPI
Synonyms	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
Gene ID	2821
mRNA Refseq	NM_000175
Protein Refseq	NP_000166
MIM	172400
UniProt ID	P06744

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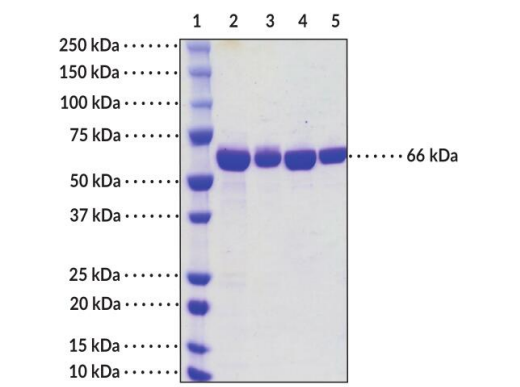
SDS-PAGE analysis of Citrullinated Glucose-6-phosphate Isomerase



Lane 1: MW Markers

Lane 2: eNOS (2 µg)

Lane 3: eNOS (4 µg)

Lane 4: eNOS (8 µg)

Identification of modified sites in Citrullinated Glucose-6-phosphate Isomerase.

Citrullinated Glucose-6-phosphate Isomerase was detected by LC-MS/MS and analyzed using Mascot and Scaffold PTM software. Deiminated arginines are indicated in teal.

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