

Recombinant Full Length Human GPI Protein, C-Flag-tagged

Cat. No. GPI-621HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GPI Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	63 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTLNTNHGHILVDYS KNLVTEDVMRMLVD LAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRNTPIL VDGKDVMPVENKVLDDKMSFCQVRVSGD WKGYTGKTITDVINIGIGGSDLGPLMVT EALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIAS KTFTTQETITNAETAKE WFLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAI GL SIALHVGFDNFEQLLSGAHWMDQHFRITPLEKNAPVLLALLGIWYINCFGCETHAML PYDQYLHRFAA YFQQGDMESENGKYITKSGTRVDHQTGPIVWGEPGTNGQHAFYQL IHQGTKMIPCDFLIPVQTQHPIRKGL HHKILLANFLAQTEALMRGKSTEEARKELQAA GKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPFMLGAL VAMYEHKIFVQGIWDINSF DQWGVELGKQLAKKIEPELDGSAQVTSHDASTNGLINFIKQQREARVQTRTRPLEQ KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name GPI glucose-6-phosphate isomerase [Homo sapiens (human)]

Official Symbol GPI

Synonyms AMF; NLK; PGI; PHI; GNPI; SA36; SA-36

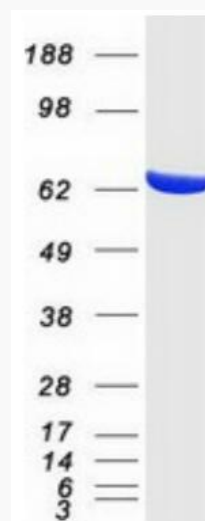
Gene ID 2821

mRNA Refseq NM_000175.5

Protein Refseq NP_000166.2

MIM 172400

UniProt ID P06744



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Coomassie blue staining of purified GPI protein.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA