

Recombinant Full Length Human GPI Protein, GST-tagged

Cat. No. GPI-5543HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPI full-length ORF (AAH04982, 1 a.a. - 558 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	558 amino acids
Description	This gene belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. The protein functions in different capacities inside and outside the cell. In the cytoplasm, the gene product is involved in glycolysis and gluconeogenesis, while outside the cell it functions as a neurotrophic factor for spinal and sensory neurons. 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. [provided by RefSeq]
Molecular Mass	86.9 kDa
AA Sequence	MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTNTNHGHILVDYS KNLVTEDVMRMLVDLAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRSNTPILV DGKDVMPEVNKVLDKMKSFCQVRVSGDWKGYTGKTITDVINIGIGGSDLGPLMVTE

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ALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIASKTFTTQETITNAETAKEW
 FLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSIA
 LHVGFDFNFEQLLSGAHWMDQHFRITPLEKNAPVLLALLGIWYINCFGCETHAMLPY
 DQYLHRFAAYFQQGDMESNGKYITKSGTRVDHQTGPIVWGEPGTNGQHAFYQLIH
 QGTMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEALMRGKSTEEARKELQAAGK
 SPEDLERLLPHKVFEGNRPTNSIVFTKLTPTFMLGALVAMYEHKIFVQGGIWDINSFDQ
 WGVELGKQLAKKIEPELDGSAQVTSHDASTNGLINFIKQQREARVQ

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GPI glucose-6-phosphate isomerase [[Homo sapiens](#)]

Official Symbol

[GPI](#)

Synonyms

GPI; glucose-6-phosphate isomerase; glucose phosphate isomerase; AMF; NLK;
 neuroleukin; oxoisomerase; sperm antigen 36; sperm antigen-36;
 phosphohexomutase; phosphosaccharomutase; phosphohexose isomerase;
 phosphoglucose isomerase; autocrine motility factor; hexosephosphate isomerase;
 hexose monophosphate isomerase; PGI; PHI; GNPI; SA36; SA-36;
 DKFZp686C13233;

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Gene ID	2821
mRNA Refseq	NM_000175
Protein Refseq	NP_000166
MIM	172400
UniProt ID	P06744

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