

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	<p>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.</p> <p>[provided by RefSeq]</p>
Molecular Mass	86.9 kDa
AA Sequence	MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTLNTNHGHILVDYS KNLVTEDVMRMLVDLAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRSNTPILV DGKDVMPEVNKVLDKMKSFCQVRVSGDWKGYTGKTITDVINIGIGGSDLGPLMVTE

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ALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIASKTFTTQETITNAETAKEW
 FLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSIA
 LHVGFDFNEQLLSGAHWMDQHFRTTPEKNAPVLLALLGIWYINCFGCETHAMLPY
 DQYLHRFAAYFQQGDMESNGKYITKSGTRVDHQTGPVWGEPTNGQHAFYQLIH
 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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