

Recombinant Human GPI, His-tagged

Cat. No. GPI-28738TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Glucose 6 phosphate isomerase fused to His-tag at N-terminus; amino acids 1-558 , 65.3kDa.
Species	Human
Source	E.coli
ProteinLength	1-558 a.a.
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.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE

 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

Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAALTRDPQF QKLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMPEVNKVLDMK SFCQVRVSGD WKGYTGTIT DVINIGIGGS DLGPLMVTEA LKPYS SGGPR VWYVSNIDGT HIAKTLAQLN PESSLFIIAS KTFTTQETIT NAETAKEWFL QAAKDPSAVA KHFVALSTNT TKVKEFGIDP QNMFEFWDWV GGRYSLWSAI GLSIALHVGF DNFEQLLSGA HWMDQHFRTT PLEKNAPVLL ALLGIWYINC FGCETHAMLP YDQYLHRFAA YFQQGDMESN GKYITKSGTR VDHQTGPIVW GEPGTNGQHA FYQLIHQGTK MIPCDFLIPV QTQHPIRKGL HHKILLANFL AQTEALMRGK STEEARKELQ AAGKSPEDLE RLLPHKVFEG NRPTNSIVFT KLTPFMLGAL VAMYEHKIFV QGIWDINSF DQWGVELGKQ LAKKIEPELD GSAQVTSHDA STNGLINFIK QQREARVQ
Sequence Similarities	Belongs to the GPI family.
Full Length	Full L.
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;

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Gene ID	2821
mRNA Refseq	NM_000175
Protein Refseq	NP_000166
MIM	172400
Uniprot ID	P06744
Chromosome Location	19q13.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem;
Function	cytokine activity; glucose-6-phosphate isomerase activity; growth factor activity; isomerase activity;