

## Product datasheet for TP301232

### Glucose 6 phosphate isomerase (GPI) (NM\_000175) Human Recombinant Protein

#### Product data:

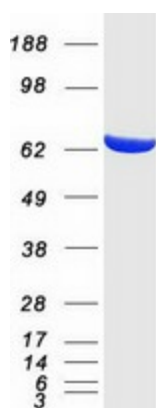
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucose phosphate isomerase (GPI), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201232 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTLNTNHGHILVDYSKNLVTEDVMRMLVD LAKSRGVEAARERMFNGEKINYTEGRAVLHVALRNRNTPILVDGKDVMPVKNVLDKMKSFQVRVRS D WKGYTGKTITDVINIGIGGSDLGPLMVTEALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIAS KTFTTQETITNAETAKEWFLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAI GLSIALHVGFDNFEQLLSGAHWMDQHFRTTPEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHFAA YFQQGDMESNGKYITKSGTRVDHQTGPVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGL L HHKILLANFLAQTEALMRGKSTEEARKELQAAGKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPEFMLGAL VAMYEHKIFVQGIWDINSFDQWGVLELGGKQLAKKIEPELDGSAQVTSHDASTNGLINFIKQQREARVQ</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	63 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000166</a>
<b>Locus ID:</b>	2821
<b>UniProt ID:</b>	<a href="#">P06744</a>
<b>RefSeq Size:</b>	4212
<b>Cytogenetics:</b>	19q13.11
<b>RefSeq ORF:</b>	1674
<b>Synonyms:</b>	AMF; GNPI; NLK; PGI; PHI; SA-36; SA36
<b>Summary:</b>	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. [provided by RefSeq, Aug 2016]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism

### Product images:



Coomassie blue staining of purified GPI protein (Cat# TP301232). The protein was produced from HEK293T cells transfected with GPI cDNA clone (Cat# [RC201232]) using MegaTran 2.0 (Cat# [TT210002]).