## Product datasheet for AR51987PU-S

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## Glucose-6-phosphate isomerase (GPI) (1-558, His-tag) Human Protein

## Product data:

Product Type:
Description:
Species:
Expression Host:
Expression cDNA Clone or AA Sequence:

## Recombinant Proteins

Glucose-6-phosphate isomerase (GPI) (1-558, His-tag) human protein, $20 \mu \mathrm{~g}$ Human
E. coli

MGSSHHHHHH SSGLVPRGSH MAALTRDPQF QKLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMP EVNKVLDKMK SFCQRVRSGD WKGYTGKTIT DVINIGIGGS DLGPLMVTEA LKPYSSGGPR 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 QGIIWDINSF DQWGVELGKQ LAKKIEPELD GSAQVTSHDA STNGLINFIK QQREARVQ

## Tag: His-tag

Predicted MW: $\quad 65.3$ kDa
Concentration: lot specific
Purity:
Buffer:

Bioactivity:

Endotoxin:
Preparation:
Storage:

Stability:
$>95 \%$ by SDS - PAGE
Presentation State: Purified
State: Liquid purified protein
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10\% glycerol
Specific: Specific activity is $>400$ units/mg obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will convert 1.0 umole of D-Fructose 6-phosphate to D-glucose 6-phosphate per minute at pH 7.4 at 37C.
< 1.0 EU per 1 microgram of protein (determined by LAL method)
Liquid purified protein
Store undiluted at $2-8^{\circ} \mathrm{C}$ for one week or (in aliquots) at $-20^{\circ} \mathrm{C}$ to $-80^{\circ} \mathrm{C}$ for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

RefSeq:

## Locus ID:

UniProt ID:
Cytogenetics:
Synonyms:
Summary:

## Protein Families:

Protein Pathways:

NP 000166

$$
2821
$$

P06744
19q13.11
AMF; GNPI; NLK; PGI; PHI; SA-36; SA36
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]

## Druggable Genome

Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism

## Product images:



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[^0]:    15\% SDS-PAGE (3ug)

