

## GPI Protein, Rat, Recombinant (His &amp; Myc)

## General Information

Synonyms:	GPI;Autocrine motility factor (AMF);Neuroleukin (NLK);Glucose-6-phosphate isomerase; Phosphohexose isomerase (PHI);Phosphoglucose isomerase (PGI)
Protein Construction:	2-558 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q6P6V0
Molecular Weight:	70.1 kDa (predicted)
AA Sequence:	AALTRNPEFQKLEWHRANSANLKLRELFADPERFNHFSLNLTNHGHILLDYSKNLVNKEVLHMLVDLAK SRGVEAARDNMFSGLKINSTEDRAVLHVALRNRSNRSIMMDGKDVMEVNVLDKMKSFQQRVRSQDWKG YTGKAITDIINIGIGSDLGPLMVTEALKPYSKGGPRVWFVSNIDGTHIAKTLANLNPESSLFIIASKTFTTQETIT NAETAKEWFLQAAKDPSAVAKHFVALSTNTDKVKEFGIDPKNMFQWVWVGGRYSLWSAIGLSIALHVGFD HFEQLLSGAHWMDQHFMKTPLDKNAPVLLALLGIWYINFYGCETHAMPLPYDQYMHRFAAYFQQGDMESN GKYITKSGARVDYQTGPVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRNLHKKILLANFLAQT EALMKGKSPEEARKEQAAGKSPEELEKLLPHKVFEGNRPTNSIVFTKLPFILGALIAMYEHKIFVQGIWDINS FDQWGVLELKGQLAKKIEPELDGSSAVTSHDSSTNGLIGFIKLQRDTKID

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

In the cytoplasm, catalyzes the conversion of glucose-6-phosphate to fructose-6-phosphate, the second step in glycolysis, and the reverse reaction during gluconeogenesis. Besides its role as a glycolytic enzyme, also acts as a secreted cytokine: acts as an angiogenic factor (AMF) that stimulates endothelial cell motility. Acts as a neurotrophic factor, neuroleukin, for spinal and sensory neurons. It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion.

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