

GPI Protein, Mouse, Recombinant (B2M & His)

General Information

Synonyms:	Phosphohexose isomerase (PHI); Phosphoglucose isomerase (PGI); GPI; Autocrine motility factor (AMF); Glucose-6-phosphate isomerase; Neuroleukin (NLK); Gpi1
Protein Construction:	2-558 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P06745
Molecular Weight:	76.6 kDa (predicted)
AA Sequence:	AALTRNPQFQKLEWHRANSANLKLRELFEADPERFNNFSLNLTNHHGILVDYSKNLVNKEVMQMLVELA KSRGVEAARDNMFSGSKINYTENRAVLHVALRNRSNTPIKVDGKDVMPEVNRVLDKMKSFQQRVRSQDWK GYTGKSITDIINIGIGGSDLGPLMVTEALKPYSKGGPRVWFVSNIDGTHIAKTLASLSPETSLFIIASKTFTTQETIT NAETAKEWFLEAAKDPASAVAKHFVALSTNTAKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSIALHVGF HFEQLLSGAHWMDQHFLKTPLEKNAPVLLALLGIWYINCYGCETHALLPYDQYMRFAAYFQQGDMESNGK YITKSGARVDHQTGPVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEAL MKGKLPPEARKEQLAAGKSPEDLEKLLPHKVFEGNRPTNSIVFTKLTPIFGALIAMYEHKIFVQGIMWDINSFD QWGVELGKQLAKKIEPELEGSSAVTSHDSSTNGLISFIKQQRDTKLE

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:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & 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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