



# Recombinant Mouse Glucose-6-phosphate isomerase (Gpi)

<b>Product Code</b>	CSB-EP009717MO-B
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P06745
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AALTRNPQFQKLEWHRANSANLKLRELFEADPERFNNFSLNLTNHHGILVD YSKNLVNKEVMQMLVELAKSRGVEAARDNMFSGSKINYTENRAVLHVALRNR SNTPIKVDGKDVMPENVNRVLDKMKSFQQRVRSQDWKGYTGKSITDIINIGIGGS DLGPLMVTEALPKYSGGPRVWFVSNIDGTHIAKTLASLSPETSLFIIASKTFTT QETITNAETAKEWFLEAAKDPSAVAKHFVALSTNTAKVKEFGIDPQNMFEFWD WVGGRYSLWSAIGLSIALHVGFDHFEQLLSGAHWMDQHFLKTPLEKNAPVLLA LLGIWYINCYGCETHALLPYDQYMHRFAAYFQQGDMESNGKYITKSGARVDH QTGPIVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLA NFLAQTEALMKGKLP EEARKELQAAGKSPEDLEKLLPHKVFEGNRPTNSIVFT KLTPFILGALIAMYEHKIFVQGIMWDINSFDQWGVELGKQLAKKIEPELEGSSAV TSHDSSTNGLISFIKQQRDTKLE
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	Gpi
<b>Protein Names</b>	Recommended name: Glucose-6-phosphate isomerase Short name= GPI EC= 5.3.1.9Alternative name(s): Autocrine motility factor Short name= AMF Neuroleukin Short name= NLK Phosphoglucose isomerase Short name=
<b>Expression Region</b>	2-558aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. This protein 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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