

Recombinant Mouse G6pc Protein, His-tagged

Cat. No. G6pc-944M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse G6pc Protein (Met1-Leu357) with His tag was expressed in Insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	Met1-Leu357
Description	The enzyme encoded by this gene is a multisubunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for glucose-6-phosphate, inorganic phosphate, and glucose. This gene is one of three glucose-6-phosphatase catalytic-subunit-encoding genes in mouse. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.6 kDa; Accurate Molecular Mass: 41 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	G6pc glucose-6-phosphatase, catalytic [<i>Mus musculus</i> (house mouse)]
Official Symbol	G6pc
Synonyms	G6PC; glucose-6-phosphatase, catalytic; glucose-6-phosphatase; G-6-Pase; Glc-6-Pase-alpha; G6pt; G6Pase; AW107337; Glc-6-Pase;
Gene ID	14377
mRNA Refseq	NM_008061
Protein Refseq	NP_032087
UniProt ID	P35576

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