

Recombinant Human G6PC Protein, His-tagged

Cat. No. G6PC-1542H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human G6PC Protein (Val57-Ala204) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val57-Ala204
Description	<p>Glucose-6-phosphatase (G6Pase) is a multi-subunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for G6P, inorganic phosphate, and glucose. This gene (G6PC) is one of the three glucose-6-phosphatase catalytic-subunit-encoding genes in human: G6PC, G6PC2 and G6PC3. 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). This disease, also known as von Gierke disease, is a metabolic disorder characterized by severe hypoglycemia associated with the accumulation of glycogen and fat in the liver and kidneys.</p>
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.6 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	G6PC glucose-6-phosphatase, catalytic subunit [Homo sapiens (human)]
Official Symbol	G6PC
Synonyms	G6PC; glucose-6-phosphatase, catalytic subunit; G6PT, glucose 6 phosphatase, catalytic (glycogen storage disease type I, von Gierke disease); glucose-6-phosphatase; glycogen storage disease type I; von Gierke disease; GSD1a; G6Pase; G-6-Pase; G6Pase-alpha; glucose-6-phosphatase alpha; G6PT; GSD1; G6PC1; MGC163350;
Gene ID	2538
mRNA Refseq	NM_000151

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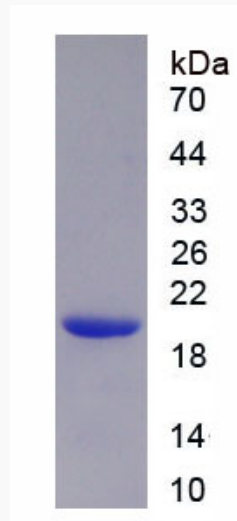
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Protein Refseq NP_000142

MIM 613742

UniProt ID P35575



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