

Recombinant Full Length Human G6PC1 Protein, C-Myc/DDK-tagged

Cat. No. G6PC1-25HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human G6PC1 Protein, fused to Myc/DDK-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
Description	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.
Form	100 mM KH ₂ PO ₄ , pH 7.4, 400 mM KCl, 500 mM NaCl, 0.025% Triton x-100.
Molecular Mass	40.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

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Stability	Stable for at least 2 years from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	0.13ug/ul
Full Length	Full L.

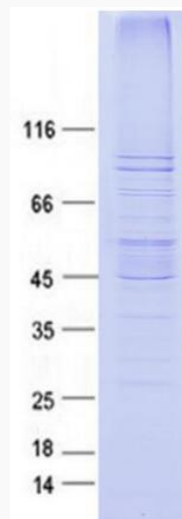
GENE INFORMATION

Gene Name	G6PC1 glucose-6-phosphatase catalytic subunit 1 [Homo sapiens (human)]
Official Symbol	G6PC1
Synonyms	G6PC; G6PT; GSD1; GSD1a; G6Pase
Gene ID	2538
mRNA Refseq	NM_000151.4
Protein Refseq	NP_000142.2
MIM	613742
UniProt ID	P35575

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SDS-PAGE

Purified recombinant human G6PC protein was analyzed by Tricine-SDS-PAGE 8-20% gel, run with Tris-Glycine running buffer.

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