

Recombinant Human G6PC 293 Cell Lysate

Cat. No. G6PC-6082HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glucose-6-phosphatase, catalytic subunit (G6PC) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

G6PC glucose-6-phosphatase, catalytic subunit [Homo sapiens]

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

Protein Refseq

NP_000142

MIM

613742

UniProt ID

P35575

Chromosome Location

17q21

Pathway

Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Carbohydrate digestion and absorption,

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organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Galactose metabolism, organism-specific biosystem;

Function

glucose-6-phosphatase activity; hydrolase activity; phosphate ion binding; phosphotransferase activity, alcohol group as acceptor;

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