

Recombinant Full Length Human G6PC Protein

Cat. No. G6PC174HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human glucose-6-phosphatase, catalytic subunit with a N-terminal proprietary tag. Mol Wt 65.34 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
Protein Length	357 amino acids
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	Liquid
Molecular Mass	65.340kDa inclusive of tags
AA Sequence	MEEGMNVLHDFGIQSTHYLQVNYQDSQDWFILVSVIADLR NAFYVLFPIWFHLQEAV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GIKLLWVAVIGDWLNLVFKWILF GQRPYWWVLDTDYYSNTSVPLIKQFPVTCETGP
 GSPSGHA MGTAGVYYVMVTSTLSIFQGKIKPTYRFRCLNVILWLGFW AVQLNVCLS
 RIYLAAHFPHQVVAGVLSGIAVAETFSHIHS IYNASLKKYFLITFFLFSFAIGFYLLKGL
 GVDLLWTLEK AQRWCEQPEWVHIDTTPFASLLKNLGTFLGGLALNSSMY RESCK
 GKLSKWLPFRLSSIVASLVLLHVFDLKPSSQVEL VFYVLSFCKSAVVPLASVSVIPY
 CLAQVLGQPHKKS

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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

Gene ID [2538](#)

mRNA Refseq [NM_000151](#)

Protein Refseq [NP_000142](#)

MIM [613742](#)

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UniProt ID

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