

Recombinant Full Length Human G6PC Protein, GST-tagged

Cat. No. G6PC-5122HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human G6PC full-length ORF (NP_000142.1, 1 a.a. - 357 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	357 amino acids
Description	Glucose-6-phosphatase is an integral membrane protein of the endoplasmic reticulum that catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate. It is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Defects in the enzyme cause glycogen storage disease type I (von Gierke disease). [provided by RefSeq
Molecular Mass	66.9 kDa
AA Sequence	MEEGMNVLHDFGIQSTHYLQVNYQDSQDWFILVSVIADLRNAAFYVLFPIWFHLQEAV GIKLLWVAVIGDWLNLVFKWILFGQRPYWWVLDTDYYSNTSVPLIKQFPVTCETGPG SPSGHAMGTAGVYYVMVTSTLSIFQGKIKPTYRFRCLNVILWLGFWAVQLNVCLSRI YLAAHFPHQVVAGVLSGIAVAETFSHIHSIYNASLKKYFLITFFLFSFAIGFYLLKGLG VDLLWTLEKAQRWCEQPEWVHIDTTPFASLLKNLGTFLGGLALNSSMYRECKGK LSKWLPFRLSSIVASLVLLHVFDLKPSSQVELVFYVLSFCKSAVVPLASVSVIPYCLA QVLGQPHKKS

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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UniProt ID

P35575

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