

Recombinant Human GYS1 293 Cell Lysate

Cat. No. GYS1-5670HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glycogen synthase 1 (muscle) (GYS1), transcript variant 1 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

GYS1 glycogen synthase 1 (muscle) [Homo sapiens]

Official Symbol

GYS1

Synonyms

GYS1; glycogen synthase 1 (muscle); GYS; glycogen [starch] synthase, muscle; GSY;

Gene ID

2997

mRNA Refseq

NM_001161587

Protein Refseq

NP_001155059

MIM

138570

UniProt ID

P13807

Chromosome Location

19q13.3

Pathway

Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen synthesis, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem; Insulin-mediated glucose transport, organism-specific biosystem;

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Function

glucose binding; glycogen (starch) synthase activity; glycogen (starch) synthase activity; protein binding; protein kinase binding; transferase activity, transferring glycosyl groups;

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