

Recombinant Human GYS2 293 Cell Lysate

Cat. No. GYS2-5669HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for glycogen synthase 2 (liver) (GYS2) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [GYS2 glycogen synthase 2 \(liver\) \[Homo sapiens \]](#)

Official Symbol [GYS2](#)

Synonyms [GYS2](#); glycogen synthase 2 (liver); glycogen [starch] synthase, liver;

Gene ID [2998](#)

mRNA Refseq [NM_021957](#)

Protein Refseq [NP_068776](#)

MIM [138571](#)

UniProt ID [P54840](#)

Chromosome Location [12p12.2-p11.2](#)

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](#); [Metabolism, organism-specific biosystem](#);

Function [glycogen \(starch\) synthase activity](#); [glycogen \(starch\) synthase activity](#); [protein homodimerization activity](#); [transferase activity, transferring glycosyl groups](#);

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