

## Recombinant Human GYS2 Protein, GST-tagged

Cat. No. GYS2-4513H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human GYS2 full-length ORF ( ADR83307.1, 1 a.a. - 703 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	The protein encoded by this gene, liver glycogen synthase, catalyzes the rate-limiting step in the synthesis of glycogen - the transfer of a glucose molecule from UDP-glucose to a terminal branch of the glycogen molecule. Mutations in this gene cause glycogen storage disease type 0 (GSD-0) - a rare type of early childhood fasting hypoglycemia with decreased liver glycogen content. [provided by RefSeq, Dec 2009]
<b>Molecular Mass</b>	77.4 kDa
<b>AA Sequence</b>	MLRGRSISVTSLGGLPQWEVEELPVEELLLFEVAWEVTNKVGGIYTVIQTAKATTAD EWGENYFLIGPYFEHNMKTQVEQCEPVNDARRAVDAMNKHGQCQVHFGRWLIEGS PYVVLFDIGYSAWNLDLDRWKGLWEACSVGIPYHDREANDMLIFGSLTAWFLKEVTD HADGKYVVAQFHEWQAGIGLILSRARKLPIATIFTTHATLLGRYLCAANIDFYNHLDKF NIDKEAGERQIYHRYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVVTPNGLNV KKFSAVHEFQNLHAMYKARIQDFVRGHFYGHLDLDFLEKTLFLFIAGRYEFSNKGADIF LESLSRLNFLLRMHKSDITVVVFFIMPAKTNNFNVETLKGQAVRKQLWDVAHSVKEK FGKKLYDALLRGEIPDLNDILDRDDLTIMKRAIFSTQRQSLPPVTTHNMIDDSTDPILST IRRIGLFNNRTDRVKVILHPEFLSSTSPLLPMDYEEFVRGCHLGVFPSYYEPWGYTPA

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ECTVMGIPSVTTNLSGFGCFMQEHVADPTAYGIYIVDRRFRSPDDSCNQLTKFLYGF  
 CKQSRQRRIQRNTERLSDLLDWRYLGRIYQHARHLTLRAFPDKFHVELTSPPTT  
 EGFKYPRPSSVPPSPSGSQASSPQSSDVEDEVEDERYDEEEEAERDRLNIKSPFSL  
 SHVPHGKKKLHGEYKN

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	GYS2 glycogen synthase 2 (liver) [ Homo sapiens ]
<b>Official Symbol</b>	GYS2
<b>Synonyms</b>	GYS2; glycogen synthase 2 (liver); glycogen [starch] synthase, liver;
<b>Gene ID</b>	2998
<b>mRNA Refseq</b>	NM_021957
<b>Protein Refseq</b>	NP_068776
<b>MIM</b>	138571

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UniProt ID

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