

Recombinant Full Length Human GYS1 Protein, GST-tagged

Cat. No. GYS1-6947HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length GYS1(1 a.a. - 737 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	737 amino acids
Description	The protein encoded by this gene catalyzes the addition of glucose monomers to the growing glycogen molecule through the formation of alpha-1,4-glycoside linkages. Mutations in this gene are associated with muscle glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	110.2 kDa
AA Sequence	MPLNRTLMSSSLPGLEDWEDEFDLENVLFVAVWEVANKVGGIYTVLQTKAKVTGD EWGDNVFLVGPYTEQGVRT QVELLEAPTALKRTLDSMNSKGCKVYFGRWLIEGG PLVLLDVGASAWALERWKGELWDTNIGVPWYDREAND AVLFGFLTWWFLGEFL AQSEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYN NLE NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTP NGLNVKKFSAMHEFQNLHAQS KARIQEFVRGHFYGHLDFNLDKTLTYFFIAGRYEFS NKGADVFLAALARLNYLLRVNGSEQTVVAFFIMPARTNNF NVETLKGQAVRKQLWD TANTVKEKFGRKLYESLLVGSLPDMNKMMLDKEDFTMMKRAIFATQRQSFPVCTHN

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MLD DSSDPILTTIRRIGLFNSSADRVKVFHPEFLSSTSPLLVDYEEFVRGCHLGVF
 PSYYEPWGYTPAECTVMGIP SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDD
 SCSQLTSFLYSFCQQSRRQRIIQRNRTERLSDLLDWKY LGRIYMSARHMALSKAFP
 EHFTYEPNEADAAQGYRYPASVPPSPSLSRHSSPHQSEDEEDPRNGPLEEDGE
 RY DEDEEAAKDRRNIRAPEWPRRASCTSSSTSGSKRNSVDTATSSSLSTPSEPLSPT
 SSLGEERN

Applications ELISA; WB-Re; AP; Array

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 GYS1 glycogen synthase 1 (muscle) [Homo sapiens (human)]

Official Symbol GYS1

Synonyms GYS1; GSY; GYS; glycogen synthase 1 (muscle); glycogen [starch] synthase, muscle; NP_001155059.1; EC 2.4.1.11; NP_002094.2

Gene ID 2997

mRNA Refseq NM_002103

Protein Refseq NP_002094

MIM 138570

UniProt ID P13807

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