

Recombinant Human GYS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GYS1-910H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GYS1 MS Standard C13 and N15-labeled recombinant protein (NP_002094) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	83.8 kDa
AA Sequence	MPLNRTLMSSSLPGLEDWEDEFDLENVLFVAVWEVANKVGGIYTVLQTKAKVTGD EWGDNYFLVGPYTEQGVRTQVELLEAPTPALKRTLDSMNSKGCKVYFGRWLIEGG PLVVLLDVGASAWALERWKGELWDTCNIGVPWYDREANDAVLFGFLTTFWFLGEFLA QSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNL ENFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPNGL NVKKFSAMHEFQNLHAQSKARIQEFVRGHFYGHLDNFNLDKTLFFIAGRYEFSNKG DVFLEALARLNYLLRVNGSEQTVVAFFIMPARTNNFNVTLLKGQAVRKQLWDTANTV KEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPPVCTHNMLDDS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDPILTTIRIGLFNSSADRVKVFHFPEFLSSTSPLLPVDYEEFVRGCHLGVFPSYYEP
 WGYTPAECTVMGIPSISTNLSGFGCFMEEHIADPSAYGIYILDRFRSLDDSCSQTLS
 FLYSFCQQSRRQRRIQRNRTERLSDLLDWKYLGRYYMSARHMALSKAFPEHFTYEP
 NEADAAQGYRYPRPASVPPSPSLSRHSSPHQSEDEEDPRNGPLEEDGERYDEDEE
 AAKDRRNIRAPEWPRRASCTSSSTSGSKRNSVDTATSSSLSTPSEPLSPTSSLGEER
 NTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GYS1 glycogen synthase 1 [Homo sapiens (human)]

Official Symbol GYS1

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

Gene ID 2997

mRNA Refseq NM_002103

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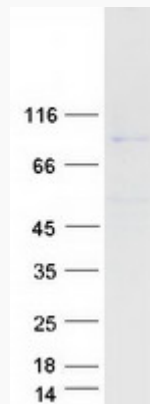
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Protein Refseq NP_002094

MIM 138570

UniProt ID P13807

SDS-PAGE



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