

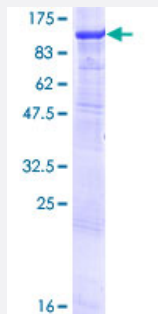
Full-Length

GYS1 (Human) Recombinant Protein (P02)

Catalog # H00002997-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GYS1 full-length ORF (NP_002094.2, 1 a.a. - 737 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPLNRTLMSSSLPGLEDWEDEFDLENVLFVAVWEVANKVGGYTVLQTKAKVTGDEWGDNYFL
VGPYTEQGVRTQVELLEAPTALKRSLDSMNSKGCKVYFGRWLIEGGPLVLLDV GASAWALER
WKGELWDTNIGVPWYDREANDAVLFGFLTTFWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLC
RARRLPVATIFTTHATLLGRYLCAGAVDFYNNLENFNVDKEAGERQIYHRYCMERAAAHCAHVFTT
VSQITAEQAQHLLKRKPDVTPNGLNVKKFSAMHEFQNLHAQSKARIQEFVRGHFYGHLDNFNDKTL
YFFIAGRYEFSNKGADVFLAALARNYLLRVNGSEQTVAFFIMPARTNNFNVTGQAVRKQLW
DTANTVKEKFGKRLYESLLVGSPLDMNKMLDKEDFTMMKRAIFATQRQSFPVCTHNMLDDSSD
PILTTIRRIGLFNSSADRVKVFHPEFLSSTSPLLPVDYEEFVRGCHLGVFSPSYEPWGYTPAECTV
MGIP SISTNL SGFGCFMEEHIADPSAYGYLDRRFRSLDDSCSQTSLFLYSFCQQSRRQRIQRNRT
ERLSDLLDWKYLGRYYMSARHMALSKAFPEHFTYEPNEADAAQGYRPRPASVPPSPSLSRHSS
PHQSEDEEDPRNGPLEEDGERYDEDEEAAKDRRNIRAPEWPRRASCTSSSTSGSKRNSVDTATS
SSLSTPSEPLSPTSSLGEERN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

110.2

Interspecies Antigen Sequence

Mouse (97); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GYS1

Entrez GeneID	2997
GeneBank Accession#	NM_002103.3
Protein Accession#	NP_002094.2
Gene Name	GYS1
Gene Alias	GSY, GYS
Gene Description	glycogen synthase 1 (muscle)
Omim ID	138570
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	-

Pathway

- [Insulin signaling pathway](#)
- [Starch and sucrose metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glucose Metabolism Disorders](#)
- [Hematologic Diseases](#)
- [Hepatitis](#)
- [Hypercholesterolemia](#)
- [Hyperglycemia](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Occupational Diseases](#)