

Recombinant Human GYG1, GST-tagged

Cat. No. GYG1-13627H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GYG1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-331a.a.

Description This gene encodes a member of the glycogenin family. Glycogenin is a glycosyltransferase that catalyzes the formation of a short glucose polymer from uridine diphosphate glucose in an autoglucosylation reaction. This reaction is followed by elongation and branching of the polymer, catalyzed by glycogen synthase and branching enzyme, to form glycogen. This gene is expressed in muscle and other tissues. Mutations in this gene result in glycogen storage disease XV. This gene has pseudogenes on chromosomes 1, 8 and 13 respectively. Alternatively spliced transcript variants encoding different isoforms have been identified.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	GYG1 glycogenin 1 [Homo sapiens]
Official Symbol	GYG1
Synonyms	GYG1; glycogenin 1; glycogenin , GYG; glycogenin-1; GN-1; GYG; GSD15;
Gene ID	2992
mRNA Refseq	NM_001184720
Protein Refseq	NP_001171649
MIM	603942
UniProt ID	P46976
Chromosome Location	3q24-q25.1
Pathway	Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen breakdown (glycogenolysis), organism-specific biosystem; Glycogen synthesis, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;
Function	glucose binding; glycogenin glucosyltransferase activity; metal ion binding; protein binding; transferase activity, transferring glycosyl groups;

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