Recombinant Human GYS2, His-tagged

Cat. No. GYS2-13635H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GYS2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-100a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	GYS2 glycogen synthase 2 (liver) [Homo sapiens]

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Official Symbol	GYS2
Synonyms	GYS2; glycogen synthase 2 (liver); glycogen [starch] synthase, liver;
Gene ID	2998
mRNA Refseq	NM_021957
Protein Refseq	NP_068776
MIM	138571
UniProt ID	P54840
Chromosome Location	12p12.2-p11.2
Pathway	Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen synthesis, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem; Metabolism, organism-specific biosystem;
Function	glycogen (starch) synthase activity; glycogen (starch) synthase activity; protein homodimerization activity; transferase activity, transferring glycosyl groups;

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