



# Recombinant Human Glycogen [starch] synthase, liver (GYS2)

<b>Product Code</b>	CSB-EP010079HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P54840
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MLRGRSLSVT SLGGLPQWEV EELPVEELL L FEVAWEVTNK VGGIYTVIQT KAKTTADEWG ENYFLIGPYF EHNMKTQVEQ CEPVNDVARR AVDAMNKHGC QVHFGRWVIE GSPYVVLFDI GYSAWNLDRW KGDLEWEACSV GIPYHDREAN DMLIFGSLTA WFLKEVTDHA DGKYVVAQFH EWQAGIGLIL SRARKLPIAT IFTTHATLLG RYLCAANIDF YNHLDKFNID KEAGERQIYH RYCMERASVH CAHVFTTVSE ITAIEAEHML KRKPDVVTN GLNVKKFSAV HEFQNLHAMY KARIQDFVRG HFGHLDLDFDL EKTLFLFIAG RYEFNSKGD IFLESLSRLN FLLRMHKSDI TVMVFFIMPA KTNNFVETL KGQAVRKQLW DVAHSVKEKF GKKLYDALLR GEIPDLNDIL DRDDLTIMKR AIFSTQRQSL PPVTTHNMID DSTDPISTI RRIGLFNRT DRVKVILHPE FLSSTSPLLP MDYEEFVRGC HLGVFPSYYE PWGYTPAECT VMGIPSVTTN LSGFGCFMQE HVADPTAYGI YIVDRRFRSP DDSCNQLTKF LYGFCQSRQ RRIQRNRTE RLSDLLDWRY LGRYYQHARH LTLSRAFPDK FHVELTSPPT TEGFKYPRPS SVPPSPSGSQ ASSPQSSDVE DEVEDERYDE EEEAERDRLN IKSPFSLSHV PHGKKKLHGE YKN
<b>Source</b>	E.coli
<b>Target Names</b>	GYS2
<b>Protein Names</b>	Recommended name: Glycogen [starch] synthase, liver EC= 2.4.1.11
<b>Expression Region</b>	1-703
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein, 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.