



Recombinant Rat Glycogen [starch] synthase, liver (Gys2)

Product Code	CSB-EP010079RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P17625
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MLRGRSLSVT SLGGLPAWEA ERLPVEDLLL FEVSWEVTNK VGGICTVIQS KAKTTANEWG ENYFLIGPYF EHNVKTQVEP CEPANDAVRK AVDAMNKHGC QVHFGRWLIE GSPYVVLFDI SSSVWNLDRW KGDFWEACGV GIPHDDREAN DMLIFGSLTA WFLKEVTDHA DGKHVIAQFH EWQAGTGLIL SRARKLPIAT IFTTHATLLG RYLCAANIDF YNQLDKFNID KEAGERQIYH RYCMERASVH CAHVFTTVSE ITAIEADHML KRKPDVVTPN GLNVKKFSAV HEFQNLHATY KARIQDFVRG HFYGHLDLFDL EKTLFLFIAG RYEFNSKPAD IFLESLSRLN FLLRMHKSNN TVVFFIMPACTNNTNFVETL KGQAVRKQLW DTVHCMKEKF GKKLYDGLLR GEIPDMNSIL DRDDLTIMKR AIFSTQRHSL PPVTTHNMD DSTDPISTI RRIGLFNRT DRVKVILHPE FLSSTSPLL MDYEEFVRGC HLGVFPSYYE PWGYTPAECT VMGIPSVTTN LSGFGCFMQE HVADPTAYGI YIVDRRFRSP DDSCNQLTQF LYGFCQSRQ QRRIQRNRTE RLSDLLDWRY LGRYYQHARH LTLSRAFPDK FHLEPTSPPT TDGFKYPRPS SVPPSPSGSQ TSSPQSSDVE NEGDEDERYD EEEEAERDRL NIKSPFSLNH IPKGKKKLHG EYKN
Source	E.coli
Target Names	Gys2
Protein Names	Recommended name: Glycogen [starch] synthase, liver EC= 2.4.1.11
Expression Region	1-704
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.

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.