

Product datasheet for TP311375

Glycogen synthase 2 (GYS2) (NM_021957) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glycogen synthase 2 (liver) (GYS2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211375 protein sequence Red =Cloning site Green =Tags(s)

MLRGRSLSVTSLGGLPQWEVEELPVEELLLFEVAWEVTNKVGGIYTVIQTAKTTADEWGENYFLIGPYF
EHNMKTQVEQCEPVNDAVRRRAVDAMNKHGQCQVHFGRWLIEGSPYVLFDIGYSAWNLDRWKDGLWEA
CSV
GIPYHDREANDMLIFGSLTAWFLKEVTDHADGKYVVAQFHEWQAGIGLILSRARKLPIATIFTTHATLLG
RYLCAANIDFYNHLDKFNIDKEAGERQIYHRYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVWTPN
GLNVKKFSAVHEFQNLHAMYKARIQDFVRGHFYGHLDLFDLEKTLFLFIAGRYEFSNKGADIFLESLSRLN
FLLRMHKS DITVVFFIMPAKTNNFNVETLKGQAVRKQLWDVAHSVKEKFGKKLYDALLRGEIPDLNDIL
DRDDLTIMKRAIFSTQRQSLPPVTTHNMIDDSTDPILSTIRRIGLFNRTDRVKVILHPEFLSSTSPLLP
MDYEEFVRGCHLGVFPSYYEPWGYTPAECTVMGIPSVTTNLSGFGCFMQEHVADPTAYGIYIVDRRFRSP
DDSCNQLTKFLYGFCKQSRQRRIQRNRTERLSDLLDWRYLGRYYQHARHLTLRAFPDKFHVELTSPPT
TEGFKYPRPSSVPPSPSGSQASSPQSSDVEDEVEDERYDEEEEAERDRLNIKSPFSLSHVPHGKKKLHGE
YKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

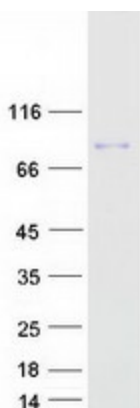
Tag:	C-Myc/DDK
Predicted MW:	80.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_068776
Locus ID:	2998
UniProt ID:	P54840
RefSeq Size:	3132
Cytogenetics:	12p12.1
RefSeq ORF:	2109
Summary:	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. [provided by RefSeq, Dec 2009]
Protein Pathways:	Insulin signaling pathway, Starch and sucrose metabolism

Product images:



Coomassie blue staining of purified GYS2 protein (Cat# TP311375). The protein was produced from HEK293T cells transfected with GYS2 cDNA clone (Cat# [RC211375]) using MegaTran 2.0 (Cat# [TT210002]).