

Product datasheet for PH300940

Glycogen synthase 1 (GYS1) (NM_002103) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GYS1 MS Standard C13 and N15-labeled recombinant protein (NP_002094)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200940
Predicted MW:	83.8 kDa
Protein Sequence:	>RC200940 protein sequence Red =Cloning site Green =Tags(s)

MPLNRTLSSSLPGLLEDWEDEFLENVLFVAVAEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTE
 QGVRTQVELLEAPTPALKRTLDSMNSKGCKVYFGRWLIIEGGPLVLLDVGASAWALERWKGELWDTCNIG
 VPWYDREANDAVLFGFLTTFWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLG
 RYL CAGAVDFYNNLENFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPN
 GLNVKKFSAMHEFQNLHAQSKARIQEFVRGHFYGHLDNFNLDKTLYFFIAGRYEFSNKGADVLEALARLN
 YLLRVNGSEQTVVAFFIMPARTNNFNVT LKGQAVRKQLWDTANTVKEKFGKLYESLLVGSLPDMNKML
 DKEDFTMMKRAIFATQRQSFPPVCTHMLDDSSDPILTTIRRIGLFNSSADRVKVIHFHPEFLSSTSPLLP
 VDYE EFVRGCHLVGFPSYEPWGYTPAECTVMGIPSI STNL SGFGCFMEEHIADPSAYGIYILDRRFRSL
 DDSCS QLT SFLYSFCQQSRRQRI IQRNTERLSDLLDWKYLGRYYMSARHMA LSKAFPEHFTYEPNEADA
 AQGYRYP RPASVPPSPSLSRHSSPHQSEDEEDPRNGPLEEDGERYDEDEEAAKDRRNIRAPEWPRRASCT
 SSTSGSKRNSVD TATSSSLSTPSEPLSPTSSLGEERN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002094</u>


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RefSeq Size:	3635
RefSeq ORF:	2211
Synonyms:	GSY; GYS
Locus ID:	2997
UniProt ID:	P13807
Cytogenetics:	19q13.33
Summary:	The protein encoded by this gene catalyzes the addition of glucose monomers to the growing glycogen molecule through the formation of alpha-1,4-glycoside linkages. Mutations in this gene are associated with muscle glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]
Protein Pathways:	Insulin signaling pathway, Starch and sucrose metabolism