

## Product datasheet for PH310683

### PYGL (NM\_002863) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PYGL MS Standard C13 and N15-labeled recombinant protein (NP_002854)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210683
Predicted MW:	97.1 kDa
Protein Sequence:	>RC210683 protein sequence Red=Cloning site Green=Tags(s)
	<p>MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRLHFTLVKDRNVATTRDYFFALAHTVRDHLVGRWIR TQQHYDCKPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLGNGLGRL AACFLDSMATLGLAAYGYGIRYEYGI FNQKIRDGWQVEEADDWLRYPNPWEKSRPEFMLPVHFGYKVEHT NTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVL YPNDNFFEGKELRLKQEFVVAATLQDIIRRFKASKFGSTRGAGTVFDFAPDQVAIQLNDRNLAENISRVL MRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPALERWVLDVEKLLPRHLEIIEINQKHLDRIVALFP KDVDRRLRRMSLIEEEGSKRINMAHL CIVGSHAVNGVAKIHSDIVKTKVFKDFSELEPKFQNKNTNGITPR RWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELAKVKQENKLF SQFLETEYKVKINP SSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKFLVPRTVIIGGKAAPGYHMAKMI IKLITSVADV VNNDPVMGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGMKFMNGALTIGTMDGANVEM AEEAGEENLFI FGMRIDDVAALDKKGYEAKYEAALPELKLVIDQIDNGFFSPKQPDFKDIINMLFYHD RFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSDDRTIKEYAQNIWNVEPSDLKISLSNE SNKVNGN</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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.



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RefSeq: [NP\\_002854](#)

RefSeq Size: 2859

RefSeq ORF: 2541

Synonyms: GSD6

Locus ID: 5836

UniProt ID: [P06737](#)

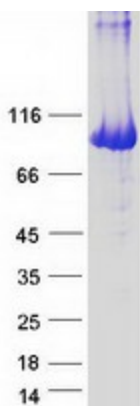
Cytogenetics: 14q22.1

**Summary:** This gene encodes a homodimeric protein that catalyses the cleavage of alpha-1,4-glucosidic bonds to release glucose-1-phosphate from liver glycogen stores. This protein switches from inactive phosphorylase B to active phosphorylase A by phosphorylation of serine residue 15. Activity of this enzyme is further regulated by multiple allosteric effectors and hormonal controls. Humans have three glycogen phosphorylase genes that encode distinct isozymes that are primarily expressed in liver, brain and muscle, respectively. The liver isozyme serves the glycemic demands of the body in general while the brain and muscle isozymes supply just those tissues. In glycogen storage disease type VI, also known as Hers disease, mutations in liver glycogen phosphorylase inhibit the conversion of glycogen to glucose and results in moderate hypoglycemia, mild ketosis, growth retardation and hepatomegaly. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Feb 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Insulin signaling pathway, Starch and sucrose metabolism

### Product images:



Coomassie blue staining of purified PYGL protein (Cat# [TP310683]). The protein was produced from HEK293T cells transfected with PYGL cDNA clone (Cat# [RC210683]) using MegaTran 2.0 (Cat# [TT210002]).