

Product datasheet for TP310683L

PYGL (NM_002863) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphorylase, glycogen, liver (PYGL), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210683 protein sequence Red=Cloning site Green=Tags(s)

MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRLHFTLVKDRNVATTRDYFALAHTVRDHLVGRWIR
TQQHYDKCPKRVVYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLNGGLGRL
AACFLDSMATLGLAAYGYGIRYEYGIFNQKIRDGWQVEEADDWLRYPWPKSRPEFMLPVHFGKVEHT
NTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVL
YPNDNFFEGKELRLKQEYFVAATLQDIIRRFKASKFGSTRGAGTVFDAPDQVAIQLNDTHPALAIPEL
MRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPALERWPVDLVEKLLPRHLEIIEINQKHLDRIVALFP
KDVDRLRRMSLIEEGSKRINMAHLICVGSHAVNGVAKIHSDIVKTKVFKDFSELEPDKFQNKTNGITPR
RWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELAKVKQENKLFKSFLETEYKVKINP
SSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKFLVPRTVIIGGKAAPGYHMAKMIIKLITSVADV
VNNDPMVGSKLKVFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEM
AEEAGEENLFIKMRIDDVAALDKKGYEKEYEALPELKLVIDQIDNGFFSPKQPDLFKDIINMLFYHD
RFKVFADYEAYKCKQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIKEYAQNIWNVEPSDLKISLSNE
SNKVNGN

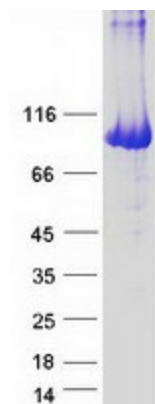
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	97 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.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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_002854
Locus ID:	5836
UniProt ID:	P06737
RefSeq Size:	2859
Cytogenetics:	14q22.1
RefSeq ORF:	2541
Synonyms:	GSD6
Summary:	<p>This gene encodes a homodimeric protein that catalyses the cleavage of alpha-1,4-glycosidic 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]</p>
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]).