

Recombinant Full Length Human PYGL Protein, His tagged

Cat. No. PYGL-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PYGL Protein with His tag was expressed in E. coli.
Species	Human
Source	E. coli
ProteinLength	1-847 aa
Description	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.
Form	Lyophilized
AASequence	MGSSHHHHHHSSGLVPRGSHMGSEFELRRQASMAKPLTDQEKRRQISIRGIVGVE NVAELKKSFNRHLHFTLVKDRNVATTRDYFALAHTVRDHLVGRWIRTQQHYDDKC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLGNGGL
 GRLAACFLDSMATLGLAAYGYGIRYEYGIFNQKIRDGWQVEEADDWLRYGNPWEEK
 SRPEFMLPVHFYKGVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSA
 RAPNDFNLRDFNVGDYIQAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFVVAAT
 LQDIIRRFKASKFGSTRGAGTVFDAFPDQVAIQLNTHPALAIPELMRIFVDIEKLPWS
 KAWELTQKTFAYTNHTVLPEALERWPVDLVEKLLPRHLEIIEINQKHLDRIVALFPKD
 VDRLRRMSLIEEEGSKRINMAHLCIVGSHAVNGVAKIHSDIVKTKVFKDFSELEPDKF
 QNKTNGITPRRWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELAKV
 KQENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPK
 KLFVPRTVIIGGKAAPGYHMAKMIKLITSVADVNNNDPMVGSKLKVIFLENYRVSLAE
 KVIPATDLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEAGEENLFIF
 GMRIDDVAALDKKGYEAEKEYEALPELKLVIDQIDNGFFSPKQPDLFKDIINMLFYHD
 RFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIKEYAQNIW
 NVEPSDLKISLSNESNKVNGN

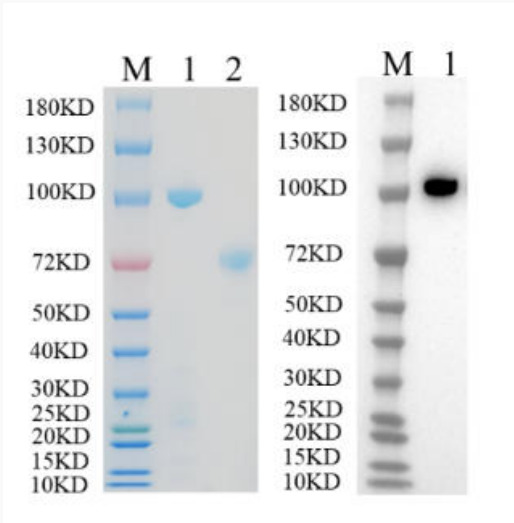
Molecular Mass	100 kDa
Endotoxin	< 1.0 EU/μg by LAL
Purity	>90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS, pH7.4
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

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Gene Name	PYGL glycogen phosphorylase L [Homo sapiens (human)]
Official Symbol	PYGL
Synonyms	PYGL; phosphorylase, glycogen, liver; phosphorylase, glycogen; liver; glycogen phosphorylase, liver form; glycogen storage disease type VI; Hers disease; GSD6;
Gene ID	5836
mRNA Refseq	NM_001163940
Protein Refseq	NP_001157412
MIM	613741
UniProt ID	P06737
SDS-PAGE and WB	 Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal

antibody) analysis profiles of purified PYGL. 1. PYGL 2. BSA

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