

Recombinant Full Length Human PYGL Protein

Cat. No. PYGL-416HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PYGL with N terminal proprietary tag. Predicted MW 119.24 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	847 amino acids
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	Liquid
Molecular Mass	119.240kDa inclusive of tags

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AA Sequence

MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTL VKDRNVATTRDYYFALA
 HTVRDHLVGRWIRTQQHYDKCP KRVYYSLEFYMGRTLQNTMINLGLQNACDEAI
 YQLGLDI EELEEIEEDAGLGNGGLGRLAACFLDSMATLGLAAYGYGI RYEYGIFNQK
 IRDGWQVEEADDWLRYPGNPWEKSRPEFMLP VHFYGVKVEHTNTGTKWIDTQVVLAL
 PYDTPVPGYMNNTVN TMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVL
 YPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKASKFGST RGAGTVFDAFPDQVAIQ
 LNDTHPALAIPELMRIFVDIEKL PWSKAWELTQKTFAYTNHTVLPEALERWPVDLVE
 KLLPRH LEIYEINQKHLDRIVALFPKDVDRLRRMSLIEEEGSKRI NMAHLCIVGSHAV
 NGVAKIHSDIVKTKVFKDFSELEPDKF QNKTNGITPRRWLLLCNPGLAELIAEKIGED
 YVKDLSQLT KLHSFLGDDVFLRELAKVKQENKLKFSQFLETEYKVKINP SSMFDVQ
 VKRIHEYKRQLLNCLHVITMYNRIKKDPKKLFV PRTVIIGGKAAPGYHMAKMIKLITSV
 ADVVNNDPMVGSK LKVIFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGNM KFML
 NGALTIGTMDGANVEMAEAEAGEENLFIFGMRIDDVA ALDKKGYEAKKEYEALPELKL
 VIDQIDNGFFSPKQPDLFK DIINMLFYHDFKVFADYEAYVKCQDKVSQLYMNPKA
 W NT MVLKNIAASGKFSSDRTIKEYAQNIWNVEPSDLKISLSNE SNKVNGN

Purity

Proprietary Purification

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer

pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION
Gene Name

PYGL phosphorylase, glycogen, liver [Homo sapiens]

Official Symbol

PYGL

Synonyms

PYGL; phosphorylase, glycogen, liver; phosphorylase, glycogen; liver; glycogen

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phosphorylase, liver form; glycogen storage disease type VI; Hers disease

Gene ID 5836**mRNA Refseq** NM_001163940**Protein Refseq** NP_001157412**MIM** 613741**UniProt ID** P06737 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