

Recombinant Full Length Human PYGL Protein, C-Flag-tagged

Cat. No. PYGL-1275HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PYGL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 isoforms that are primarily expressed in liver, brain and muscle, respectively. The liver isoform serves the glycemic demands of the body in general while the brain and muscle isoforms 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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	97 kDa
AA Sequence	MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTLVKDRNVATTRDYYFALAH

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TVRDHLVGRWIR TQQHYDCKPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIY
 QLGLDIEELEIEEDAGLGNGGLGRL AACFLDSMATLGLAAYGYGIRYEYGIFNQKIR
 DGWQVEEADDWLRYGNPWEKSRPEFMLPVHFYKGVEHT NTGTKWIDTQVVLALP
 YDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVL YP
 NDNFFEGKELRLKQEYFVVAATLQDIIRRFKASKFGSTRGAGTVFDAPDQVAIQLN
 DTHPALAIPEL MRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPEALERWPVDLVEKLL
 PRHLEIIYEINQKHLDRIVALFP KDVDRLRRMSLIEEEGSKRINMAHLCIVGSHAVNGV
 AKIHSDIVKTKVFKDFSELEPKDFQNKTNGITPR RWLLLCNPGLAELIAEKIGEDYVK
 DLSQLTKLHSFLGDDVFLRELAKVKQENKLKFSQFLETEYKVKINP SSMFDVQVKRI
 HEYKRQLLNCLHVITMYNRIKKDPKKLFVPRTVIIGGKAAPGYHMAKMIIKLITSVADV
 VNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGNMKFMLNGA
 LTIGTMDGANVEM AEEAGEENLFIFGMRIDDVAALDKKGYEAKKEYEALPELKLVID
 QIDNGFFSPKQPDLFKDIINMLFYHD RFKVFADYEAYVKCQDKVSQLYMNPKAWNT
 MVLKNIAASGKFSSDRTIKEYAQNIWNVEPSDLKISLSNE
 SNKVNGNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Protein Pathways	Insulin signaling pathway, Starch and sucrose metabolism
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Full Length	Full L.
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GENE INFORMATION

Gene Name	PYGL glycogen phosphorylase L [Homo sapiens (human)]
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Official Symbol	PYGL
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Synonyms	GSD6
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Gene ID	5836
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mRNA Refseq	NM_002863.5
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Protein Refseq	NP_002854.3
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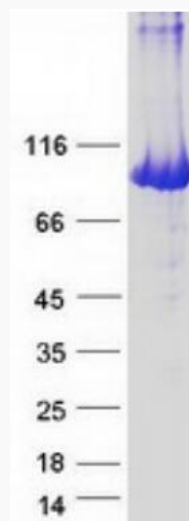
MIM	613741
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UniProt ID	P06737
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Coomassie blue staining of purified PYGL protein.

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