# Recombinant Human PYGL protein, His-tagged

**Cat. No.** PYGL-7823H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human PYGL aa. (Asn633~Glu820 (Accession # P06737)) fused with N-terminal His tag was produced in E. coli cells. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Asn633~Glu820 |
| **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** | Freeze-dried powder |
| **Molecular Mass** | 22.6 kDa as determined by SDS-PAGE reducing conditions. |

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| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method) |
| **Purity** | >97% |
| **Characteristic** | The isoelectric point is 5.2. |
| **Applications** | SDS-PAGE; WB; ELISA; IP |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| **Storage buffer** | Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4. |
| **Reconstitution** | Reconstitute in sterile PBS, pH7.2-pH7.4. |

## GENE INFORMATION

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| **Gene Name** | PYGL glycogen phosphorylase L [ Homo sapiens (human) ] |
| **Official Symbol** | PYGL |
| **Synonyms** | PYGL; glycogen phosphorylase L; GSD6; glycogen phosphorylase, liver form; phosphorylase, glycogen, liver |
| **Gene ID** | 5836 |

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| **mRNA Refseq** | NM_001163940.1 |
| **Protein Refseq** | NP_001157412.1 |
| **UniProt ID** | P06737 |

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