

Recombinant Human PYGL protein, His-tagged

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

SPECIFICATION

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 1g (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

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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