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**Product Data Sheet**


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Product Name: PYGL Human  
 Cat. No.: GP22210  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | GSD6; Glycogen phosphorylase; liver form.   |                    |                         |
| Amino Acid Sequence | <p>MGSSHHHHH SGLVPRGSH MGSEFELRRQ ASMAKPLTDQ EKRRQISIRG<br/>         IVGVENVAEL KKSFNRLHF TLVKDRNVATRDYFALAH TVRDHLVGRW<br/>         IRTQQHYDK CPKRVYLSL EFYMGRTLQN TMINLGLQNA<br/>         CDEAIYQLGLDIEELEEIEE DAGLGNGGLG RLAACFLDSM ATLGLAAYGY<br/>         GIRYEYGIFN QKIRDGWQVE EADDWLRYGNPWEKSRPEFM LPVHFYKVE<br/>         HTNTGTKWID TQVVLALPYD TPVPGYMNNT VNTMRLWSAR<br/>         APNDFNLRDFNVGDYIQAVL DRNLAENISR VLYPNDNFFE GKELRLKQEQ<br/>         FVVAATLQDI IRRFKASKFG STRGAGTVFDFPDQVAIQL NDTHPALAIP<br/>         ELMRIFVDIE KLPWSKAWEL TQKTFAYTNH TVLPEALERW<br/>         PVDLVEKLLPRHLEIYEIN QKHLDRIVAL FPKDVDRLRR MSLIEEEGSK<br/>         RINMAHLCIV GSHAVNGVAK IHSDIVKTKV FKDFSELEPDKFQNKTNIGT<br/>         PRRWLLLCNP GLAELIAEKI GEDYVKDLSQ LTKLHSFLGD DVFLRELAKV<br/>         KQENKLFKFSQFLETEYKVKI NPSSMFDVQV KRIHEYKRQL LNCLHVITMY<br/>         NRIKKDPKLL FVPRTVIIGG KAAPGYHMAKMIKLITVA DVVNNDPMVG<br/>         SKLKVIFLEN YRVSLAEKVI PATDLSEQIS TAGTEASGTG<br/>         NMKFMLNGALTIGTMDGANV EMAEEAGEEN LFIFGMRIDD VAALDKKGYE<br/>         AKEYYEALPE LKLVIDQIDN GFFSPKQPDLFKDIINMLFY HDRFKVFADY<br/>         EAYVKCQDKV SLYMNPKAW NTMVLKNIAA SGKSSDRTI KEYAQNIWNV<br/>         EPSDLKISLSNESNKVNGN.</p> |                    |                         |
| Formulation         | PYGL protein solution (0.25mg/ml) in phosphate buffered saline (pH7.4), 30% glycerol and 1mM DTT.   |                    |                         |

**Introduction**

Glycogen phosphorylase (PYGL) converts from inactive phosphorylase B to active

**Caution: Product has not been fully validated for medical applications. For research use only.**

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phosphorylase A by phosphorylation of serine residue 15. Activity of the PYGL enzyme is further regulated by numerous allosteric effectors and hormonal controls. The liver isozyme supplies the glycemic demands of the body in general whereas the brain and muscle isozymes supply just those tissues.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PYGL Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 879 amino acids (1-847 a.a) and having a molecular mass of 100.7kDa. PYGL is fused to a 32 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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