

## Recombinant Human PYGM Protein, His-tagged

**Cat. No.** PYGM-2647H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PYGM Protein (Arg11-Gly187) with a N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Arg11-Gly187                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 21.7 kDa<br>Accurate Molecular Mass: 26 kDa                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | <1.0 EU per 1g (determined by the LAL method).                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                  |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | 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 centigrade 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PYGM phosphorylase, glycogen, muscle [ Homo sapiens (human) ]                                                                                                                     |
| <b>Official Symbol</b> | PYGM                                                                                                                                                                              |
| <b>Synonyms</b>        | PYGM; phosphorylase, glycogen, muscle; phosphorylase, glycogen; muscle; glycogen phosphorylase, muscle form; glycogen storage disease type V; McArdle syndrome; myophosphorylase; |
| <b>Gene ID</b>         | 5837                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001164716                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_001158188                                                                                                                                                                      |
| <b>MIM</b>             | 608455                                                                                                                                                                            |

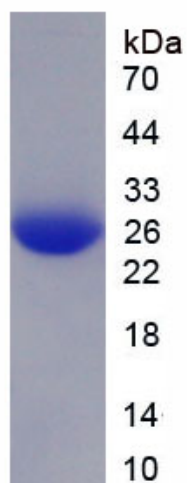
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UniProt ID

P11217

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