

**PYGL, 1-847aa , Human, His tag, E.coli**

**Cat.NO.: TP03610**

3th Edition

**Synonyms:**Glycogen phosphorylase, liver form isoform 1, GSD6

**Description:**PYGL also known as Glycogen phosphorylase, 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. The liver isozyme serves the glycemic demands of the body in general while the brain and muscle isozymes supply just those tissues. Recombinant human PYGL, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT.

**Molecular Weight:**100.7kDa (879aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSEFELRRQASMAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRLHFTLVKD  
RNVATTRDYFALAHTVRDHLVGRWIRTQQHYDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLD  
IEELEEIEEDAGLNGGLGRLAACFLDSMATLGLAAYGYGIRYEGIFNQKIRDGWQVEEADDWLRYGNPWEKSRP  
EFMLPVHFYFGKVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAFLDR  
NLAENISRVLYPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKASKFGSTRGAGTVFDFPDQVAIQLNDTHPALAIP  
ELMRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPALERWPVDLVEKLLPRHLEIIEINQKHLDRIVALFPKDVDRLR  
RMSLIEEEGSKRINMAHLICVGSNAVNGVAKIHSDIVKTKVFKDFSELEPKFQNKTNGITPRRWLLLCNPGLAELIAE  
KIGEDYVKDLSQLTKLHSFLGDDVFLRELAKVKQENKLFKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHV  
ITMYNRIKKDKPKLFPRTVIIGGKAAPGYHMAKMIKLITSVADVNNNDPMVGSKLKVFLENYRVSLAEKVIPATDLS  
EQISTAGTEASGTGNMFKMLNGALTIGTMDGANVEMAEAGEENLFIFGMRIDDDVAALDKKGYEAKEYYEALPELKL  
VIDQIDNGFFSPKQPDLFKDIINMLFYHDFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLKKNIAASGKFSSDRTI  
KEYAQNIWNVEPSDLKISLSNESNKVNGN

**Purity:**> 95% by HPLC

**Concentration:**0.25mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.