

Product information

PYGL, 1-847aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3063

Full name: Glycogen phosphorylase, liver form isoform 1

NCBI Accession No.: NP_002854

Synonyms: GSD6

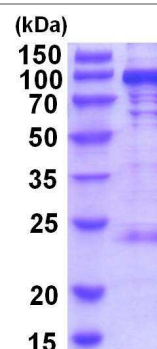
Description: PYGL also known as Glycogen phosphorylase, switches from inactive phosphorylase B to active phosphorylase A by phosphorylation of serine residue 15. Activity of this enzyme is further regulated by multiple allosteric effectors and hormonal controls. The liver isozyme serves the glycemic 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)

Purity: > 80% by SDS - PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MGSEFELRRQ ASMAKPLTDQ EKRRQISIRG IVGVENVAEL KKSFNRLHF TLVKDRNVAT TRDYYFALAH TVRDHLVGRW
 IRTQQHYDYK CPKRVYYLSL EFYMGRTLQN TMINLGLQNA CDEAIYQLGL DIEELEIEE DAGLGNGGLG RLAACFLDSM ATGLAAYGY GIRYEGIFN
 QKIRDGWQVE EADDWLRYGN PWEKSRPEFM LPVHFYKVE HTNTGKWD TQVVALPYD TPVPGYMNNT VNTMRLWSAR APDNFNLRF NVGDYIQAFL
 DRNLAENISR VLYPNDNFFE GKELRLKQEQ FVVAATLQDI IRRFKASKFG STRGAGTVFD AFPDQVAIQL NDTHPALAI ELMRIFVDIE KLPWSKAWEL
 TQKTFAYTNH TVLPEALERW PVOLVEKLLP RHLEIIEYN QKHLDRIVAL FPKDVRRLRR MSLIEEGSK RINMAHLCIV GSHAVNGVAK IHSDIVKTKV
 FKDFSELEPD KFNKNTNGIT PRRWLLLCNP GLAELIAEKI GEDYVKDLSQ LTKLHSLFGD DVFLRELAKV KQENKLKFSQ FLETEYKVKI NPSSMFDVQV
 KRIHEYKRQL LNCLHVTMY NRIKKDPKKL FVPRTVIIGG KAAPGYHMAK MIIKLITSA DVVNDPMVG SKLKVIFLEN YRVSLAEKVI PATDLSEQIS
 TAGTEASGTG NMKFMLNGAL TIGTMDGANV EMAGEEAGEEN LFIFGMRIDD VAALDKKGYE AKEYYEALPE LKLVIDQIDN GFFSPKQPD LFKDIINMLFY
 HDRFKVFADY EAYVKQDKV SLYLMPNPAW NTMLVKNIAA SGKFSSDRTI KEAQNIWNV EPSDLKISLS NESNKNVNGN

General references:

Tomihira M. *et al.* (2004). *Diabetes Res Clin Pract.* 65:175-182

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.