Recombinant human PYGL protein

Catalog Number: ATGP3063

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-847aa

UniProt No.
P06737

NCBI Accession No.
NP_002854

Alternative Names
Glycogen phosphorylase liver form isoform 1, Glycogen phosphorylase, liver form isoform 1, GSD6

PRODUCT SPECIFICATION

Molecular Weight
100.7 kDa (879aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

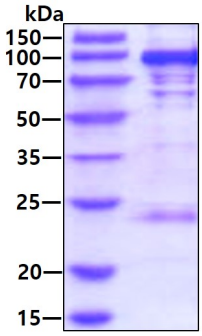
<MGSSHHHHHH SSGLVPRGSH MGSEFELRRQ AS>MAKPLTDQ EKRRQISIRG IVGVENVAEL KKSFNRHLHF TLVKDRNVAT TRDYYFALAH TVRDHLVGRW IRTQQHYYDK CPKRVYYLSL EFYMGRTLQN TMINLGLQNA CDEAIYQLGL DIEELEEIEE DAGLGNGGLG RLAACFLDSM ATLGLAAYGY GIRYEYGIFN QKIRDGWQVE EADDWLRYGN PWEKSRPEFM LPVHFYGKVE HTNTGTKWID TQVVLALPYD TPVPGYMNNT VNTMRLWSAR APNDFNLRDF NVGDYIQAVL DRNLAENISR VLYPNDNFFE GKELRLKQEY FVVAATLQDI IRRFKASKFG STRGAGTVFD AFPDQVAIQL NDTHPALAIP ELMRIFVDIE KLPWSKAWEL TQKTFAYTNH TVLPEALERW PVDLVEKLLP RHLEIIYEIN QKHLDRIVAL FPKDVDRLRR MSLIEEEGSK RINMAHLCIV GSHAVNGVAK IHSDIVKTKV FKDFSELEPD KFQNKTNGIT PRRWLLLCNP GLAELIAEKI GEDYVKDLSQ LTKLHSFLGD DVFLRELAKV KQENKLKFSQ FLETEYKVKI NPSSMFDVQV KRIHEYKRQL LNCLHVITMY NRIKKDPKKL FVPRTVIIGG KAAPGYHMAK MIIKLITSVA DVVNNDPMVG SKLKVIFLEN YRVSLAEKVI PATDLSEQIS TAGTEASGTG NMKFMLNGAL TIGTMDGANV EMAEEAGEEN LFIFGMRIDD VAALDKKGYE AKEYYEALPE LKLVIDQIDN GFFSPKQPDL FKDIINMLFY HDRFKVFADY EAYVKCQDKV SQLYMNPKAW NTMVLKNIAA SGKFSSDRTI KEYAQNIWNV EPSDLKISLS NESNKVNGN

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain