

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

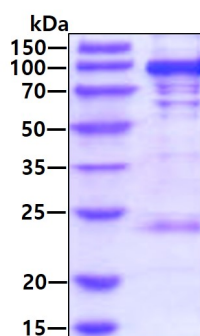
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 LPVHFYGVKVE HTNTGTKWID TQVVLALPYD TPVPGYMNNT VNTMRLWSAR APNDFNLRDF NVGDYIQAVL DRNLAENISR
 VLYPNDNFFE GKELRLKQY FVVAATLQDI IRRFKASKFG STRGAGTVFD AFPDQVAIQL NDTHPALAIP ELMRIFVDIE
 KLPWSKAWEL TQKTFAYTNH TVLPEALERW PVDLVEKLLP RHLEIYEIN QKHLDRIVAL FPKDVDRLRR MSLEEEGSK
 RINMAHLCIV GSHAVNGVAK IHSDIVKTKV FKDFSELEPD KFQNKNGIT PRRWLLLCNP GLAELIAEKI GEDYVKDLSQ
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 NMKFMLNGAL TIGTMDGANV EMAEEAGEEN LFIFGMRIDD VAALDKKGYE AKEYYEALPE LKLVIDQIDN GFFSPKQPD
 FKDIINMLFY HDRFKVFADY EAYVKCQDKV SLYLMNPKAU 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