

Product datasheet for **AR51883PU-N**

Glycogen phosphorylase liver form (1-847, His-tag) Human Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Glycogen phosphorylase liver form (1-847, His-tag) human recombinant protein, 50 µg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSEFELRRQ ASMAKPLTDQ EKRRQISIRG IVGVENVAEL KKSFNRLHF TLVKDRNVAT TRDYFALAH TVRDHLVGRW IRTQQHYDYK CPKRYYLSL EFYMGRTLQN TMINLGLQNA CDEAIYQLGL DIEELEEIEE DAGLNGGLG RLAACFLDSM ATLGLAAYGY GIRYEGIFN QKIRDGWQVE EADDWLRYGN PWEKSRPEFM LPVHFYGVKVE HTNTGTKWID TQVVLALPYD TPVPGYMNNT VNTMRLWSAR APNDFNLRDF NVGDYIQAVL DRNLAENISR VLYPNDNFFE GKELRLKQEQY FVVAATLQDI IRRFKASKFG STRGAGTVFD AFPDQVAIQL NDTHPALAIP ELMRIFVDIE KLPWSKAWEL TQKTFAYTNH TVLPEALERW PVDLVEKLLP RHLEIYEIN QKHLDRIVAL FPKDVDRLRR MSLIEEEGSK RINMAHLCIV GSHAVNGVAK IHSDIVKTKV FKDFSELEPD KFQNKTNIGIT PRRWLLLCNP GLAELIAEKI GEDYVKDLSQ LTKLHSFLGD DVFLRELAKV KQENKLFKFSQ FLETEYKVKI NPSSMFDVQV KRIHEYKRQL LNCLHVITMY NRIKKDPKKL FVPRTVIIGG KAAPGYHMAK MIIKLITVA DWNNDPMVG SKLKVIFLEN YRVSLAEKVI PATDLSEQIS TAGTEASGTG NMKFMLNGAL TIGTMDGANV EMAEEAGEEN LFIFGMRIDD VAALDKKGYE AKEYYEALPE LKLVIDQIDN GFFSPKQPD LFKDIINMLFY HDRFKVFADY EAYVKCQDKV SLYLMNPKAW NTMVLKNIAA SGKFSSDRTI KEYAQNIWNV EPSDLKISLS NESNKVNGN |
| Tag: | His-tag |
| Predicted MW: | 100.7 kDa |
| Concentration: | lot specific |
| Purity: | >80% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate buffered saline (pH 7.4) containing 30% glycerol, 1 mM DTT |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human PYGL, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Storage: | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. |



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Stability: Shelf life: one year from despatch.

RefSeq: [NP_001157412](#)

Locus ID: 5836

UniProt ID: [P06737](#), [P06737-2](#)

Cytogenetics: 14q22.1

Synonyms: GSD6

Summary: This gene encodes a homodimeric protein that catalyses the cleavage of alpha-1,4-glycosidic bonds to release glucose-1-phosphate from liver glycogen stores. This protein 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. Humans have three glycogen phosphorylase genes that encode distinct isozymes that are primarily expressed in liver, brain and muscle, respectively. The liver isozyme serves the glycemic demands of the body in general while the brain and muscle isozymes supply just those tissues. In glycogen storage disease type VI, also known as Hers disease, mutations in liver glycogen phosphorylase inhibit the conversion of glycogen to glucose and results in moderate hypoglycemia, mild ketosis, growth retardation and hepatomegaly. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome

Protein Pathways: Insulin signaling pathway, Starch and sucrose metabolism

Product images:

