Glycogen phosphorylase (PYGL), partial Recombinant Protein | PYGL recombinant protein

Recombinant Human Glycogen phosphorylase, liver form (PYGL), partial

CATALOG #	HOST
AAA113390	**E Coli or Yeast or Baculovirus or Mammalian Cell**

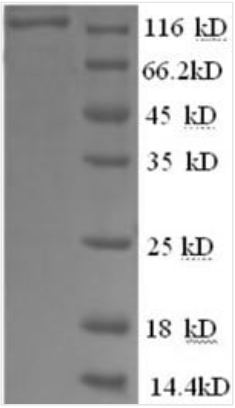
PRODUCT SYNONYMS

Glycogen phosphorylase (PYGL); partial; Recombinant Human Glycogen phosphorylase; liver form (PYGL); PYGL recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-846. Partial
Sequence	AKPLTDQEKR RQISIRGIVG VENVAELKKS FNRHLHFTLV KDRNVATTRD YYFALAHTVR DHLVGRWIRT QQHYYDKCPK RVYYLSLEFY MGRTLQNTMI NLGLQNACDE AIYQLGLDIE ELEEIEEDAG LGNGGLGRLA ACFLDSMATL GLAAYGYGIR YEYGIFNQKI RDGWQVEEAD DWLRYGNPWE KSRPEFMLPV HFYGKVEHTN TGTKWIDTQV VLALPYDTPV PGYMNNTVNT MRLWSARAPN DFNLRDFNVG DYIQAVLDRN LAENISRVLY PNDNFFEGKE LRLKQEYFVV AATLQDIIRR FKASKFGSTR GAGTVFDAFP DQVAIQLNDT HPALAIPELM RIFVDIEKLP WSKAWELTQK TFAYTNHTVL PEALERWPVD LVEKLLPRHL EIIYEINQKH LDRIVALFPK DVDRLRRMSL IEEEGSKRIN MAHLCIVGSH AVNGVAKIHS DIVKTKVFKD FSELEPDKFQ NKTNGITPRR WLLLCNPGLA ELIAEKIGED YVKDLSQLTK LHSFLGDDVF LRELAKVKQE NKLKFSQFLE TEYKVKINPS SMFDVQVKRI HEYKRQLLNC LHVITMYNRI KKDPKKLFVP RTVIIGGKAA PGYHMAKMII KLITSVADVV NNDPMVGSKL KVIFLENYRV SLAEKVIPAT DLSEQISTAG TEASGTGNMK FMLNGALTIG TMDGANVEMA EEAGEENLFI FGMRIDDVAA LDKKGYEAKE YYEALPELKL VIDQIDNGFF SPKQPDLFKD IINMLFYHDR FKVFADYEAY VKCQDKVSQL YMNPKAWNTM VLKNIAASGK FSSDRTIKEY AQNIWNVEPS DLKISLSNES NKVNG
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PYGL recombinant protein	Phosphorylase is an important allosteric enzyme in carbohydrate metabolism. Enzymes from different sources differ in their regulatory mechanisms and in their natural substrates. However, all known phosphorylases share catalytic and structural properties.
Product Categories/Family for PYGL recombinant protein	Metabolism
References	Sequence analysis of the cDNA encoding human liver glycogen phosphorylase reveals tissue-specific codon usage.Newgard C.B., Nakano K., Hwang P.K., Fletterick R.J.Proc. Natl. Acad. Sci. U.S.A. 83:8132-8136(1986) Carty M.D., Clancy Y.C., Soeller W.C. Identification of a mutation in liver glycogen phosphorylase in glycogen storage disease type VI.Chang S., Rosenberg M.J., Morton H., Francomano C.A., Biesecker L.G.Hum. Mol. Genet. 7:865-870(1998) Mutations in the liver glycogen phosphorylase gene 'PYGL' underlying glycogenosis type VI.Burwinkel B., Bakker H.D., Herschkovitz E., Moses S.W., Shin Y.S., Kilimann M.W.Am. J. Hum. Genet. 62:785-791(1998) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) The DNA sequence and analysis of human chromosome 14.Heilig R., Eckenberg R., Petit J.-L., Fonknechten N., Da Silva C., Cattolico L., Levy M., Barbe V., De Berardinis V., Ureta-Vidal A., Pelletier E., Vico V., Anthouard V., Rowen L., Madan A., Qin S., Sun H., Du H., Pepin K., Artiguenave F., Robert C., Cruaud C., Bruels T., Jaillon O., Friedlander L., Samson G., Brottier P., Cure S., Segurens B., Aniere F., Samain S., Crespeau H., Abbasi N., Aiach N., Boscus D., Dickhoff R., Dors M., Dubois I., Friedman C., Gouyvenoux M., James R., Madan A., Mairey-Estrada B., Mangenot S., Martins N., Menard M., Oztas S., Ratcliffe A., Shaffer T., Trask B., Vacherie B., Bellemere C., Belser C., Besnard-Gonnet M., Bartol-Mavel D., Boutard M., Briez-Silla S., Combette S., Dufosse-Laurent V., Ferron C., Lechaplais C., Louesse C., Muselet D., Magdelenat G., Pateau E., Petit E., Sirvain-Trukniewicz P., Trybou A., Vega-Czarny N., Bataille E., Bluet E., Bordelais I., Dubois M., Dumont C., Guerin T., Haffray S., Hammadi R., Muanga J., Pellouin V., Robert D., Wunderle E., Gauguet G., Roy A., Sainte-Marthe L., Verdier J., Verdier-Discala C., Hillier L.W., Fulton L., McPherson J., Matsuda F., Wilson R., Scarpelli C., Gyapay G., Wincker P., Saurin W., Quetier F., Waterston R., Hood L., Weissenbach J.Nature 421:601-607(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	255653002
NCBI GeneID	5836
NCBI Accession #	NP_001157412.1
NCBI GenBank Nucleotide #	NM_001163940.1
UniProt Accession #	P06737; O60567; O60752; O60913; Q501V9; Q641R5; Q96G82; A6NDQ4; B4DUB7; F5H816
Molecular Weight	123.9 kDa
NCBI Official Full Name	glycogen phosphorylase, liver form isoform 2
NCBI Official Synonym Full Names	phosphorylase, glycogen, liver
NCBI Official Symbol	PYGL

NCBI Official Synonym Symbols	GSD6
NCBI Protein Information	glycogen phosphorylase, liver form
UniProt Protein Name	Glycogen phosphorylase, liver form
UniProt Gene Name	**PYGL**
UniProt Entry Name	PYGL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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