

Glycogen Phosphorylase, Muscle (PYGM) Recombinant Protein | PYGM recombinant protein

Recombinant Glycogen Phosphorylase, Muscle (PYGM)

CATALOG # AAA148349	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
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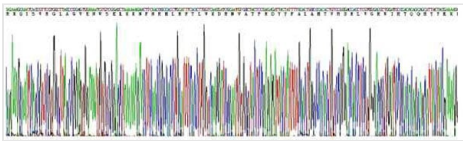
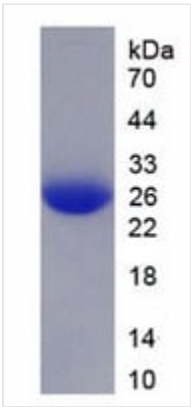
PRODUCT SYNONYMS

Glycogen Phosphorylase; Muscle (PYGM); Recombinant Glycogen Phosphorylase; GPMM; Phosphorylase; Glycogen; McArdle Syndrome; Glycogen Storage Disease Type V; Myophosphorylase; PYGM recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 97%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for PYGM recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Arg11~Gly187
Tags	N-terminal His Tag
Subcellular Location	Cytoplasm
Traits	Freeze-dried powder
Predicted isoelectric point	5.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

RKQISVRGLA GVENVTEKK NFNRLHFTL VKDRNVATPR
DYYFALAHTV RDHLVGRWIR TQQHYEYKDP KRIYYLSLEF YNGRTLQNTM
VNLALENACD EATYQLGLDM EEELEEIEDA GLNGGLGRL AACFLDSMAT
LGLAAYGYGI RYEFGIFNQK ISGGWQMEEA DDWLRVG

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for PYGM recombinant protein Enzyme & Kinase; Metabolic pathway; Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	257900462
NCBI GeneID	5837
NCBI Accession #	NP_001158188.1
NCBI GenBank Nucleotide #	NM_001164716.1
UniProt Accession #	P11217; A0AVK1; A6NDY6
Molecular Weight	Predicted Molecular Mass: 21.7kDa Accurate Molecular Mass: 26kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	glycogen phosphorylase, muscle form isoform 2
NCBI Official Synonym Full Names	glycogen phosphorylase, muscle associated
NCBI Official Symbol	PYGM
NCBI Protein Information	glycogen phosphorylase, muscle form
UniProt Protein Name	Glycogen phosphorylase, muscle form
UniProt Gene Name	PYGM

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.