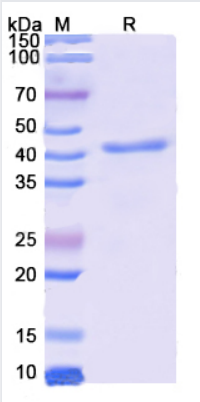
PYGM Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	PYGM, Recombinant Protein
Full Product Name	Recombinant Human PYGM Protein, N-His
Product Gene Name	PYGM recombinant protein
Product Synonym Names	Glycogen phosphorylase; muscle form; 2.4.1.1; Myophosphorylase; PYGM
Sequence	Gly486-Gly 827
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE.
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	97,092 Da
OMIM	232600
3D Structure	ModBase 3D Structure for P11217
Species	Homo sapiens (Human)
Reconstitution	Reconstitute in sterile water for a stock solution. A copy of datasheet will be provided with the products, please refer to it for details.
Product Categories/Family for PYGM recombinant protein	Recombinant Protein; Other Proteins; Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PYGM recombinant protein	ELISA (EIA), Immunogen, SDS-PAGE, Western Blot (WB), Bioactivity testing in progress
Related Product Information for PYGM recombinant protein	MBS1587404 is a recombinant protein targeting PYGM. Also known as Recombinant Human PYGM Protein, N-His. Host: E coli.
Other Notes	Small volumes of PYGM recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of PYGM recombinant protein
SDS-PAGE for Recombinant Human PYGM protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PYGM. It may not necessarily be applicable to this product.

NCBI GI #	5032009
NCBI GeneID	5837
NCBI Accession #	NP_005600.1
UniProt Primary Accession #	P11217
UniProt Secondary Accession #	A0AVK1; A6NDY6
UniProt Related Accession #	P11217
GenBank Nucleotide #	NM_005609.2
NCBI Official Full Name	glycogen phosphorylase, muscle form isoform 1
NCBI Official Synonym Full Names	phosphorylase, glycogen, muscle
NCBI Official Symbol	PYGM
UniProt Protein Name	Glycogen phosphorylase, muscle form
UniProt Synonym Protein Names	Myophosphorylase
Protein Family	Glycogen phosphorylase
UniProt Gene Name	PYGM
UniProt Entry Name	PYGM_HUMAN
NCBI Protein Information	glycogen phosphorylase, muscle form; myophosphorylase
NCBI Summary for PYGM	This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Sep 2009]

UniProt Comments for PYGM	PYGM: 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. Dimers associate into a tetramer to form the enzymatically active phosphorylase A. Phosphorylation of Ser-14 converts phosphorylase B (unphosphorylated) to phosphorylase A. Protein type: Phosphorylase; Carbohydrate Metabolism - starch and sucrose; Transferase; Endoplasmic reticulum; EC 2.4.1.1 Chromosomal Location of Human Ortholog: 11q12-q13.2 Cellular Component: cytosol Molecular Function: glycogen phosphorylase activity; nucleotide binding; pyridoxal phosphate binding Biological Process: glycogen metabolic process; glycogen catabolic process; carbohydrate metabolic process; glucose metabolic process; pathogenesis Disease: Glycogen Storage Disease V
Research Articles on PYGM	**1.** 5 different PYGM mutations were found in 8 Brazilian families: 4 previously described (p.R50X, p.T692kfs30, p.K609K, and p.G455R), and one, pI513V, a novel heterozygous mutation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/pygm/1587404