PHD Finger-Like Domain-Containing Protein 5a (PHF5A) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	PHD finger-like domain-containing protein 5A (Phf5a), Recombinant Protein
Full Product Name	Recombinant Mouse PHD finger-like domain-containing protein 5A (Phf5a)
Product Gene Name	Phf5a recombinant protein
Sequence	AKHHPDLIFC RKQAGVAIGR LCEKCDGKCV ICDSYVRPCT LVRICDECNY GSYQGRCVIC GGPGVSDAYY CKECTIQEKD RDGCPKIVNL GSSKTDLFYE RKKYGFKKR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	12,405 Da
Sequence Positions	2-110, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P83870
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Phf5a recombinant protein	This gene encodes a subunit of the splicing factor 3b protein complex. Splicing factor 3b, together with splicing factor 3a and a 12S RNA unit, forms the U2 small nuclear ribonucleoproteins complex (U2 snRNP). The splicing factor 3b 3a complex binds pre-mRNA upstream of the intron s branch site in a sequence-independent manner and may anchor the U2 snRNP to the pre-mRNA. This protein contains a PHD-finger-like domain that is flanked by highly basic N- and C-termini. This protein belongs to the PHD-finger superfamily and may act as a chromatin-associated protein. This gene has several pseudogenes on different chromosomes.
Other Notes	Small volumes of Phf5a 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.
Searchable Terms for Phf5a purchase	MBS957371 is a recombinant protein targeting Phf5a. Also known as Recombinant Mouse PHD finger-like domain-containing protein 5A (Phf5a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Phf5a. It may not necessarily be applicable to this product.

NCBI GI #	24415990
NCBI GeneID	68479
NCBI Accession #	NP_081013.1

UniProt Primary Accession #	P83870
UniProt Secondary Accession #	Q3TQX7; Q9UH06
UniProt Related Accession #	P83870
GenBank Nucleotide #	NM_026737.3
NCBI Official Full Name	PHD finger-like domain-containing protein 5A
NCBI Official Synonym Full Names	PHD finger protein 5A
NCBI Official Symbol	Phf5a
NCBI Official Synonym Symbols	1110007B08Rik
UniProt Protein Name	PHD finger-like domain-containing protein 5A
UniProt Synonym Protein Names	Splicing factor 3B-associated 14 kDa protein; SF3b14b
UniProt Gene Name	Phf5a
UniProt Synonym Gene Names	PHD finger-like domain protein 5A; SF3b14b
NCBI Protein Information	PHD finger-like domain-containing protein 5A
UniProt Comments for Phf5a	Involved with the PAF1 complex (PAF1C) in transcriptional elongation by RNA polymerase II, and in regulation of development and maintenance of embryonic stem cell (ESC) pluripotency. Required for maintenance of ESCs self-renewal and cellular reprogramming of stem cells. Maintains pluripotency by recruiting and stabilizing PAF1C on pluripotency genes loci, and by regulating the expression of the pluripotency genes. Regulates the deposition of elongation-associated histone modifications, including dimethylated histone H3 'Lys-79' (H3K79me2) and trimethylated histone H3 'Lys-36' (H3K36me3), on PAF1C targets, self-renewal and pluripotency genes. Regulates RNA polymerase II promoter-proximal pause release of the PAF1C targets and self-renewal genes, and the levels of elongating ('Ser-2' phosphorylated) RNA polymerase II in their gene bodies. Regulates muscle specification in adult stem cells by stabilizing PAF1C in chromatin to promote myogenic differentiation (PubMed:27749823). Involved in pre-mRNA splicing as a component of the splicing factor SF3B complex. SF3B complex is required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA (). Acts as a transcriptional regulator by binding to the GJA1/Cx43 promoter and enhancing its up-regulation by ESR1/ER-alpha ().
Research Articles on Phf5a	**1.** Phf5a controls differentiation of adult myoblasts
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.
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