Perilipin-1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Perilipin A (PLIN1), Blocking Peptide
Full Product Name	Perilipin-1 Blocking Peptide
Product Gene Name	PLIN1 blocking peptide
Product Synonym Names	Lipid droplet associated protein; Lipid droplet-associated protein; PERI; Perilipin; Perilipin-1; PerilipinA; PLIN; PLIN1; PLIN1_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Perilipin-1 peptide (MBS9626916) is used for blocking the activity of Perilipin-1 antibody (MBS9608204)
Molecular Weight	55,990 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (90207598..90222648, complement). Location: 15q26
OMIM	170290
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PLIN1 blocking peptide	Blocking/Control
Related Product Information for PLIN1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PLIN1 blocking peptide 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 PLIN1 purchase	MBS9626916 is a blocking peptide targeting PLIN1. Also known as Perilipin-1 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLIN1. It may not necessarily be applicable to this product.

NCBI GI #	223718203
NCBI GeneID	5346
NCBI Accession #	NP_001138783.1
UniProt Primary Accession #	O60240
UniProt Secondary Accession #	Q8N5Y6

UniProt Related Accession #	O60240
GenBank Nucleotide #	NM_001145311.1
NCBI Official Full Name	perilipin-1
NCBI Official Synonym Full Names	perilipin 1
NCBI Official Symbol	PLIN1
NCBI Official Synonym Symbols	PERI; PLIN; FPLD4
UniProt Protein Name	Perilipin-1
UniProt Synonym Protein Names	Lipid droplet-associated protein
Protein Family	Perilipin
UniProt Gene Name	PLIN1
UniProt Synonym Gene Names	PERI; PLIN
UniProt Entry Name	PLIN1_HUMAN
NCBI Protein Information	perilipin-1; lipid droplet-associated protein
NCBI Summary for PLIN1	The protein encoded by this gene coats lipid storage droplets in adipocytes, thereby protecting them until they can be broken down by hormone-sensitive lipase. The encoded protein is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in the inhibition of lipolysis. Alternatively spliced transcript variants varying in the 5' UTR, but encoding the same protein, have been found for this gene. [provided by RefSeq, Feb 2009]
UniProt Comments for PLIN1	perilipin 1: an adipocyte protein of the peripilin family. A modulator of adipocyte lipid metabolism, coating lipid storage droplets to protect them from being broken down by hormone-sensitive lipase. A major cAMP-dependent protein kinase-substrate in adipocytes, also dephosphorylated by PP1. When phosphorylated, may be maximally sensitive to HSL and when unphosphorylated, may play a role in the inhibition of lipolysis. Protein type: Lipid-binding Chromosomal Location of Human Ortholog: 15q26 Cellular Component: endoplasmic reticulum; lipid particle; cytosol Molecular Function: lipid binding Biological Process: triacylglycerol catabolic process; lipid metabolic process Disease: Lipodystrophy, Familial Partial, Type 4
Research Articles on PLIN1	**1.** PKC activation is required for TSH-stimulated perilipin phosphorylation and lipolysis in differentiated adipocytes.
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