Perilipin-5 (PLIN5) Sheep Recombinant Protein

PRODUCT OVERVIEW

Product Name	Perilipin-5 (Plin5), Recombinant Protein
Full Product Name	Recombinant Sheep Perilipin-5 (Plin5)
Product Gene Name	Plin5 recombinant protein
Sequence	MSEDEAAQAP GPSLSEQDQQ SAVQRVAALP LIRATCTAVS EAYSAAKDRH PLLGSACRLA EHCVCDLTTR ALDHAQPLLS HLQPQLATVN DLACRGLDKL EEKLPFLQQP SETVVTSAKG VVASSVTGMV GLARQGRRWS VELKRSVSHA MDVVLEKSEE LVDHFLPMTE EELAALAAEA EGPEVGSVEE QRKHQGYFVR LGSLSTRLRH LAYEHSLGKL RQKKHHAQDT LAQLQETLEL IHRMQCGVTP ITPARPGKVH ELWEDWSQRP LENGRRRHSQ AELETLVLSR NLMRELQSTV DALETSVRGL PPSAQEKVAE VRRSVDALQA AFADARRFGD LPAAVLAEGR GSMARAHACV DELLELVVQA MPLPWLVGPF APILVERPEP PPDLEALVDE VIGGPDPRWA HLDWPAQQRA WQAQHGEGTV LSGNIPEEEP EPPSRPKHTL MPELDF
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	50,229 Da
Sequence Positions	1-456, 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 B0FJL7
Species	Sheep
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Plin5 recombinant protein	MBS1236846 is a recombinant protein targeting Plin5. Also known as Recombinant Sheep Perilipin-5 (Plin5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Plin5 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Plin5. It may not necessarily be applicable to this product.

NCBI GI #	166157510
NCBI GeneID	100135434
NCBI Accession #	NP_001107246.1
UniProt Primary Accession #	B0FJL7
UniProt Related Accession #	B0FJL7

GenBank Nucleotide #	NM_001113774.1
NCBI Official Full Name	perilipin-5
NCBI Official Symbol	PLIN5
NCBI Official Synonym Symbols	LSDP5
UniProt Protein Name	Perilipin-5
UniProt Synonym Protein Names	Lipid storage droplet protein 5
Protein Family	Perilipin
UniProt Gene Name	Plin5
UniProt Synonym Gene Names	Lsdp5
NCBI Protein Information	perilipin-5
UniProt Comments for Plin5	Lipid droplet-associated protein that maintains the balance between lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of LIPE ().
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