

## Recombinant Human PLIN1 Protein, His tagged

**Cat. No.** PLIN1-001H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PLIN1 Protein with His tagged                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 8-145 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>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.</p> <p>Alternatively spliced transcript variants varying in the 5' UTR, but encoding the same protein, have been found for this gene.</p> |
| <b>Molecular Mass</b>   | 16 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AASequence</b>       | MTLLDGDLP EQENVLQ RVLQLP VVSGTCECFQKTYTSTKEAHPLVASVCNAYEKGV<br>QSASSLAAWSMEPVVRRRLSTQFTAANELACRGLDHL EEKIPALQYPPEKIAS ELKDTI<br>STRLRSARNSISVPIASTSDKVLGAHHHHHHHH                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | <1EU/μg by LAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Sterile PBS, pH7.4, 5% Trehalose, 10% Glycerol                                                                                                                      |
| <b>Concentration</b>  | 1 mg/mL by BCA                                                                                                                                                      |

## GENE INFORMATION

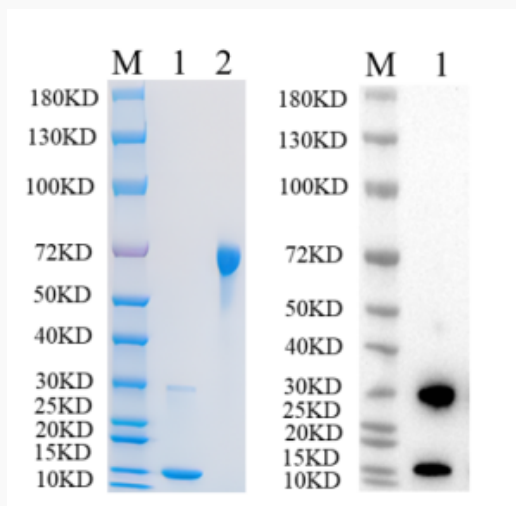
|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PLIN1 perilipin 1 [ Homo sapiens (human) ]                                                             |
| <b>Official Symbol</b> | PLIN1                                                                                                  |
| <b>Synonyms</b>        | PLIN1; perilipin 1; perilipin , PLIN; perilipin-1; lipid droplet-associated protein; PERI; PLIN; FPLD4 |
| <b>Gene ID</b>         | 5346                                                                                                   |
| <b>mRNA Refseq</b>     | NM_001145311                                                                                           |
| <b>Protein Refseq</b>  | NP_001138783                                                                                           |
| <b>MIM</b>             | 170290                                                                                                 |
| <b>UniProt ID</b>      | O60240                                                                                                 |

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# SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified PLIN1. 1. PLIN1: 1  $\mu$ g 2. BSA: 1  $\mu$ g