

# Recombinant Full Length Human PLIN1 Protein, C-Flag-tagged

**Cat. No.** PLIN1-130HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human PLIN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 55.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MAVNKGLTLLDGDLP EQENVLQRVLQLPVVSGTCECFQKTYTSTKEAHPLVASVCN<br>AYEKGVSQASSLAA WSM EPVVRR LSTQFTAANELACRGLDHLEEKIPALQYPPEKI<br>ASELKDTISTR LRSARNSISVPIASTSD KVLGAALAGCELA WGVARDTAEFAANTRA<br>GRLASGGADLALGSIEKVVEYLLPADKEESAPAPGHQQAQE SPKAKPSLLSRVGAL<br>TNTLSRYTVQTMARALEQGHTVAMWIPGVVPLSSLAQWGASVAMQAVSRRRSEVR<br>VPWLHSLAAAQ EEDHEDQTDTEGEDTEEEEELETEENKFSEVAALPGPRGLLGGVA<br>HTLQKTLQTTISAV TWAPAAVLGMAGRVLHLTPAPAVSSTKGRAMSLSDALKGVTD                                      |

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NVVDTVVHYVPLPRLSLMEPESEFRDID NPPAEVERREAERRASGAPSAGPEPAPR  
LAQPRRSLRSAQSPGAPPGGLEDEVATPAAPRPGFPAVPRE  
KPKRRVSDSFFRPSVMEPIGRTHYSQLRKKSTRTRPLEQKLISEEDLAANDILDYKD  
DDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome                                                                                                                              |
| <b>Protein Pathways</b> | PPAR signaling pathway                                                                                                                        |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

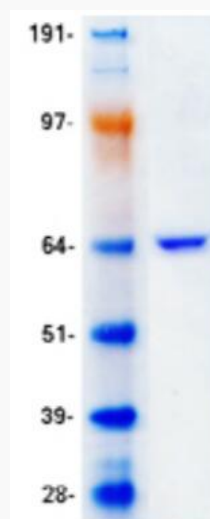
|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Gene Name</b>       | PLIN1 perilipin 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | PLIN1                                      |
| <b>Synonyms</b>        | PERI; PLIN; FPLD4                          |

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|                |             |
|----------------|-------------|
| Gene ID        | 5346        |
| mRNA Refseq    | NM_002666.5 |
| Protein Refseq | NP_002657.3 |
| MIM            | 170290      |
| UniProt ID     | O60240      |



Coomassie blue staining of purified PLIN1 protein.