Supplemental information

Adenosine-rich extract of Ganoderma lucidum:
A safe and effective lipid-lowering substance

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Adenosine-rich extract of Ganoderma lucidum: a safe and effective lipid-lowering substance via regulating expression and modulation of PPAR signaling pathway

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SUPPLEMENTARY MATERIALS

Figures S1-S3

Table S1
FIGURES

Figure S1, related to Figure 3, The effect of AEGL on adipose tissue. (A) Hematoxylin/eosin (H&E) staining of scapular and inguinal adipose tissue (×200). (B) The expression level of UCP1 analyzed based on western blot. (C) The grayscale value of UCP1 calculated based on western blot results. Data are presented as mean ± SEM, *p<0.05.
Figure S2, related to Table 2. Verification of the protein expression. (A) The expression level of Fabp1 analyzed based on Parallel reaction monitoring (PRM). (B) The expression level of Fabp2 analyzed based on Parallel reaction monitoring (PRM). (The results of PRM are shown in the tableS1, and two proteins in the results are shown.) (C) The expression level of FABP1, CPT2, ACOX1, ACSL1 and ACSL5 proteins analyzed based on western blot.
**Figure S3**, related to Table 2. Verification of the protein post-translational modifications.

(A) Western blot analysis with anti-acetyl-lysine antibody following immunoprecipitation (IP) of Acox1 with rabbit anti-Acox1 in Liver samples from HFD and AEGL groups. Rabbit anti-IgG antibody was used as IP control. (B) Western blot analysis with anti-Crotonyllysine Mouse mAb following immunoprecipitation (IP) of Acsl1 with rabbit anti-Acsl1 in Liver samples from HFD and AEGL groups. Rabbit anti-IgG antibody was used as IP control. (C) Western blot analysis with anti-acetyl-lysine antibody and anti-Crotonyllysine Mouse mAb following immunoprecipitation (IP) of Acsl5 with rabbit anti-Acsl5 in Liver samples from HFD and AEGL groups. Rabbit anti-IgG antibody was used as IP control. (D) Western blot analysis with anti-acetyl-lysine antibody following immunoprecipitation (IP) of Cpt2 with rabbit anti-Cpt2 in Liver samples from HFD and AEGL groups. Rabbit anti-IgG antibody was used as IP control. (E) Western blot analysis with anti-acetyl-lysine antibody and anti-Crotonyllysine Mouse mAb following immunoprecipitation (IP) of Fabp1 with rabbit anti-Fabp1 in Liver samples from HFD and AEGL groups. Rabbit anti-IgG antibody was used as IP control.
Table S1, related to Table 2. The levels of proteins in Proteomics and Parallel reaction monitoring (PRM)

| Protein accession | Gene name | Proteomics (p-value) | PRM (p-value) |
|-------------------|-----------|----------------------|---------------|
| Q05816            | Fabp5     | up(**)               | up(**)        |
| Q9CZW4            | Acs13     | up(*)                | up(*)         |
| P12710            | Fabp1     | down(***), up(*)    | down(***), up(*) |
| P55050            | Fabp2     | down(***), up(*)    | down(***), up(*) |
| P41216            | Acs11     | down(**)             | down(*)       |
| Q3UNX5            | Acsme3    | down(***), up(*)    | down(***), up(*) |
| Q8BGA8            | Acsme5    | down(*)              | down(*)       |
| P55096            | Abcd3     | down(*)              | down(*)       |
| Q9DBM2            | Ehhadh    | down(**)             | down(*)       |
| Q9R0H0            | Acoxl     | down(**)             | down(*)       |
| Q921H8            | Acaal     | down(*)              | down(*)       |
| Q8VCH0            | Acaalb    | down(*)              | down(*)       |
| Q8BWT1            | Acaal2    | down(**)             | down(*)       |
| Q8QZT1            | Acat1     | down(**)             | down(*)       |
| P50544            | Acadvl    | down(*)              | down(*)       |
| P52825            | Cpt2      | down(**)             | down(*)       |
| Q8BMS1            | Hadha     | down(**)             | down(*)       |
| Q99JY0            | Hadhb     | down(**)             | down(*)       |
| Q8K3K7            | Agpat2    | up(**)               | down(*)       |