Supporting Information

Pantheric acids A-C from a Poisonous Mushroom, *Amanita pantherina* Promotes Lipid Accumulation in Adipocytes

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Figure S11. The HMBC spectrum of 2
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**Figure S13. The HR-ESIMS data of 3**

**Single mass analysis**
- Tolerance = 20.0 mDa
- DRR min = 1.5, max = 80.0
- Element prediction: Off
- Number of isotopes printed: 10

**Isotopes Printed:**
- Mass: [213.1279, 214.1279, 215.1279, ...]
- Calcd Mass: [213.1279, 214.1279, 215.1279, ...]
- ppm: [0.1, 0.1, 0.1, ...]
- DB: [0.1, 0.1, 0.1, ...]
- Formula: [C84H83N6O22, C84H83N6O22, C84H83N6O22, ...]
- I-RT: [84.8, 84.8, 84.8, ...]
- H-RT: [84.8, 84.8, 84.8, ...]
- H-RT Error: [0.00, 0.00, 0.00, ...]
- H-RT Form: [84.8, 84.8, 84.8, ...]
- H-Conf %: [0.00, 0.00, 0.00, ...]
- C: [29, 29, 29, ...]
- H: [4, 4, 4, ...]
- N: [2, 2, 2, ...]
- O: [2, 2, 2, ...]

**Elements Used:**
- [C84H83N6O22, C84H83N6O22, C84H83N6O22, ...]

**Diagram:**
- Mass spectrum graph showing peaks at various masses with corresponding intensities.

**Additional Information:**
- Mass range: [213, 215]
- Calculated masses and theoretical masses compared.
- Isotopic patterns analyzed for each mass.
Figure S14. The $^1$H NMR spectrum of 3 (CD$_3$OD, 800 MHz)
Figure S15. The $^1$H-$^1$H COSY spectrum of 3
Figure S16. The HSQC spectrum of 3
Figure S17. The HMBC spectrum of 3
Figure S18. The UV spectrum of 3
Figure S19. The HR-MS/MS data of 2
Figure S20. The LC/MS data of acylated derivatives from CEA reaction of 1 ([M + Na]+ peak at m/z 431): (a) A fully acylated derivative of compound 1 in R-HBTM at 30 min; (b) A fully acylated derivative of compound 1 in S-HBTM at 30 min

a) R-HBTM (30 min)
b) S-HBTM (30 min)
**Figure S21.** The LC/MS data of acylated derivatives from CEA reaction of 2 ([M + Na]+ peak at m/z 457): (a) A fully acylated derivative of compound 2 in *R*-HBTM at 30 min; (b) A fully acylated derivative of compound 2 in *S*-HBTM at 30 min

a) *R*-HBTM (30 min)
b) S-HBTM (30 min)