

Figure S1. Effects of RBPP-P on the physiological activities of mice. Mice were treated with RBPP-P (20 mg/kg, intraperitoneal injection, once daily) for 8 weeks. **(A)** Effect of RBPP-P on body weight; **(B)** Effect of RBPP-P on fasting blood glucose; **(C)** Effect of RBPP-P on serum alanine transaminase (ALT) level. Results represent mean \pm s.d. ($n = 6$ mice in each group).

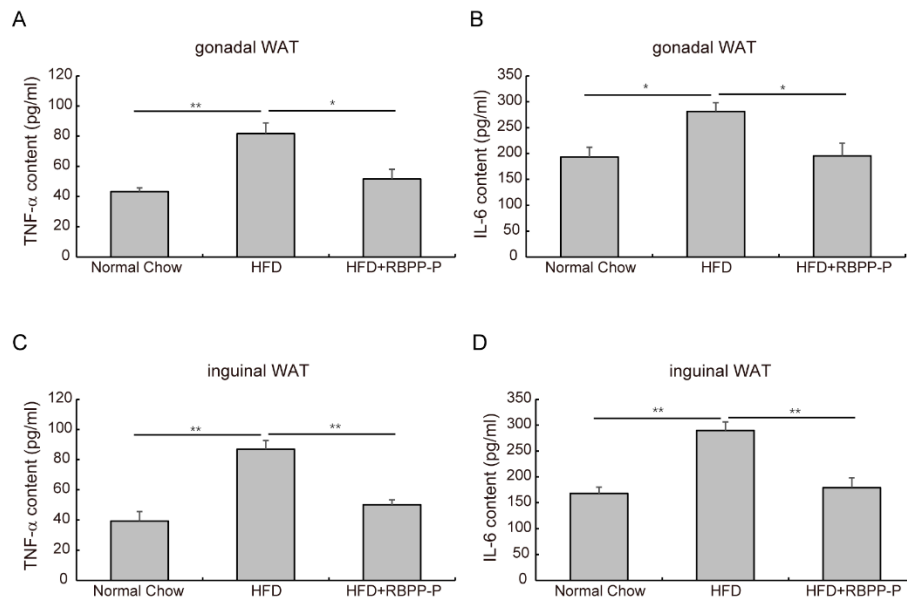


Figure S2. Effects of RBPP-P on contents of cytokines in adipose tissues. HFD-fed mice were treated with RBPP-P (20 mg/kg, intraperitoneal injection, once daily) for 8 weeks. **(A)** Tumor necrosis factor α (TNF- α) content in gonadal WAT (white adipose tissue). **(B)** Interleukin 6 (IL-6) content in gonadal WAT. **(C)** TNF- α content in inguinal WAT. **(D)** IL-6 content in inguinal WAT. Results represent mean \pm s.d. ($n = 8$ mice in each group). * $p < 0.05$; ** $p < 0.01$.

Table S1. Primer sequences for qPCR.

Genes	Forward	Reverse
<i>Ppara</i>	5'-CTTCAACATGAACAAGGTCAAAGC-3'	5'-AGCCATACACAGTGTCTCCATATC-3'
<i>Cpt1a</i>	5'-CTCAGTGGGAGCGACTCTTCA-3'	5'-GGCCTCTGTGGTACACGACAA-3'
<i>Acox1</i>	5'-CAGCCAGATTGGTAGAAATTGCT-3'	5'-ACGCCACTTCCTTGCTCTTC-3'
<i>Srebf1</i>	5'-AACGTCACCTCCAGCTAGAC-3'	5'-CCACTAAGGTGCCTACAGAGC-3'
<i>Fasn</i>	5'-TTCCAAGACGAAAATGATGC-3'	5'-AATTGTGGGATCAGGAGAGC-3'
<i>Gapdh</i>	5'-TGTGTCCGTCGTGGATCTGA-3'	5'-TTGCTGTTGAAGTCGCAGGAG-3'