



**Supplementary Fig. 1.** Pilot study for different dosages of celastrol. We orally administered (A) 15 µg/kg, (B) 50 µg/kg, (C) 100 µg/kg, (D) 150 µg/kg, (E) 200 µg/kg, and (F) 250 µg/kg body weight (BW) of celastrol to diet-induced obese (DIO) rats, and only 250 µg/kg group reduced BW of DIO rats.