

## **Supporting Information**

### **Platycodin D inhibits lipogenesis through AMPK $\alpha$ -PPAR $\gamma$ 2 in 3T3-L1 cells and modulates fat accumulation in obese mice**

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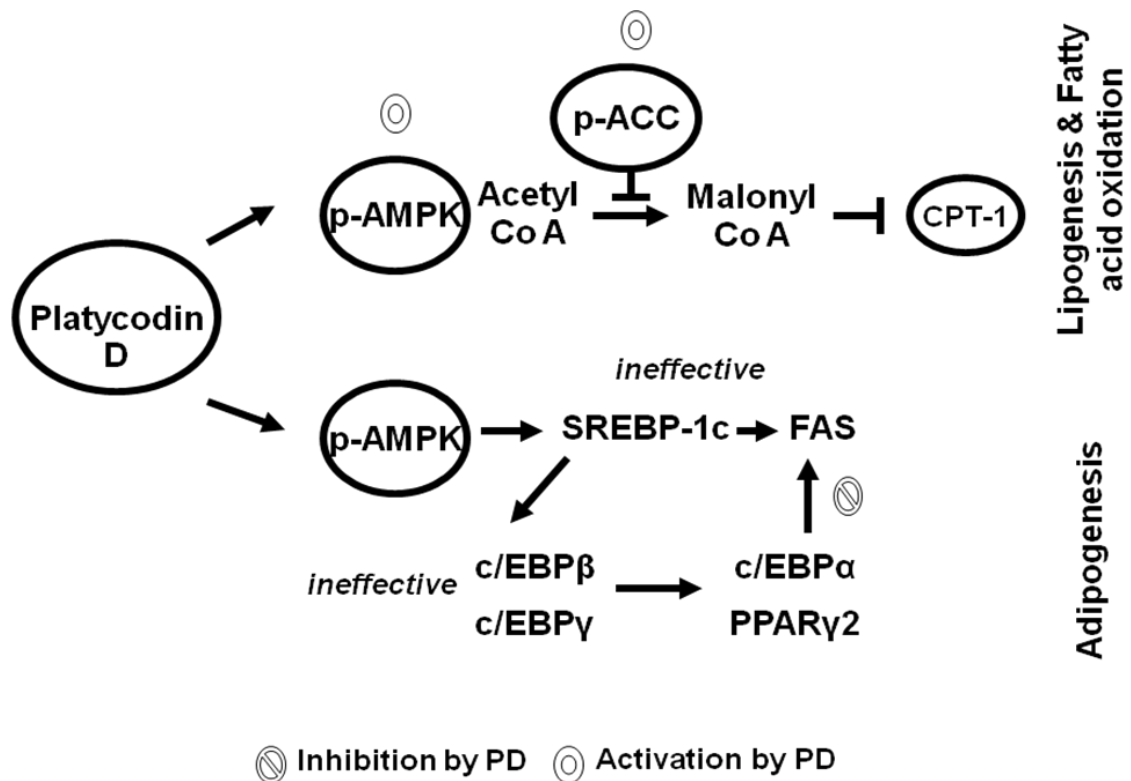
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**Fig 1S** The hypothetical mechanism mediated by platycodin D in adipogenesis.

*C/EBPβ*, *C/EBPγ*, and sterol regulatory element-binding protein (SREBP)1C are well-known upstream regulators of PPAR $\gamma$ 2 in the adipogenesis pathway; PD has no effect on such upstream regulators. However, PD treatment significantly reduces the amount of PPAR $\gamma$  bound to PPRE (its target DNA sequence) and downregulate *C/EBPα*. Also, PD treatment improves adipogenesis by phosphorylation of AMPK and ACC, which are important factors for fatty acid oxidation.