



Supplementary Fig. 1. Study design of diet and treatment duration. Five-week-old male C57BL/6J mice ($n=45$) were administered 60% high-fat (HF) diet (HFD) for 8 weeks prior to treatment. Normal control mice (same age) were fed with normal chow diet ($n=4$). After 8 weeks, HFD-induced diabetic mice (blood glucose levels ≥ 250 mg/dL) ($n=34$) were selected and randomly divided into 60% HFD ($n=10$) and 60% HFD+DA-1241 (120 mg/kg) ($n=24$) groups.