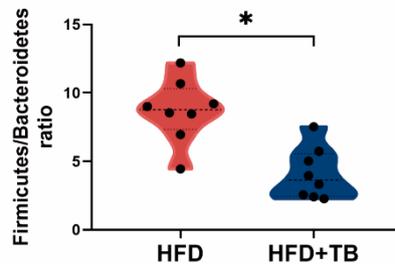


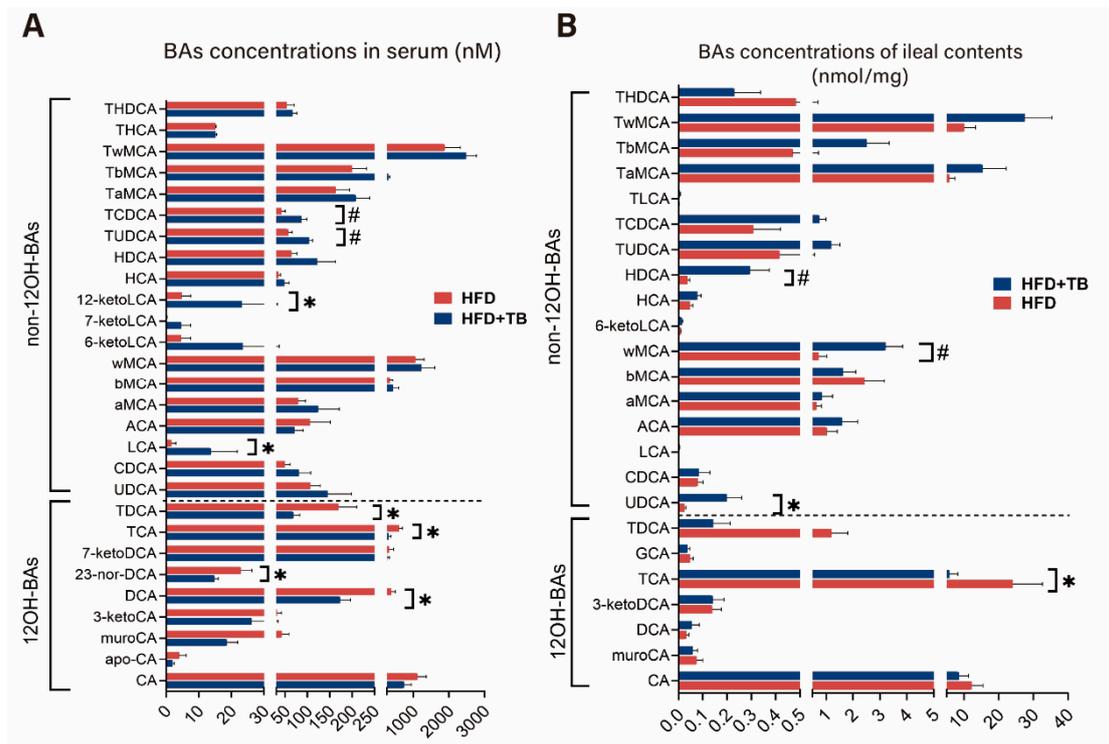
Anti-Adipogenic Effect of Theabrownin is Mediated by Bile Acid Alternative Synthesis Via Gut Microbiota Remodeling

Supplementary material



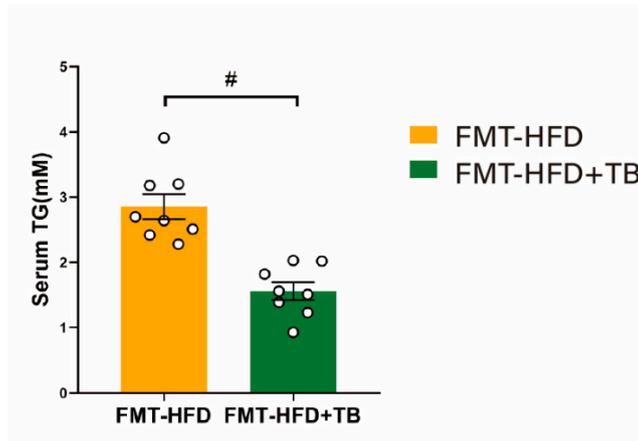
Supplementary Fig S1

Relative abundance of Firmicutes/Bacteroides as a ratio at the phylum level. (n=8 per group). Differences between data were assessed using the Mann-Whitney U test. # p<0.01, *p<0.05



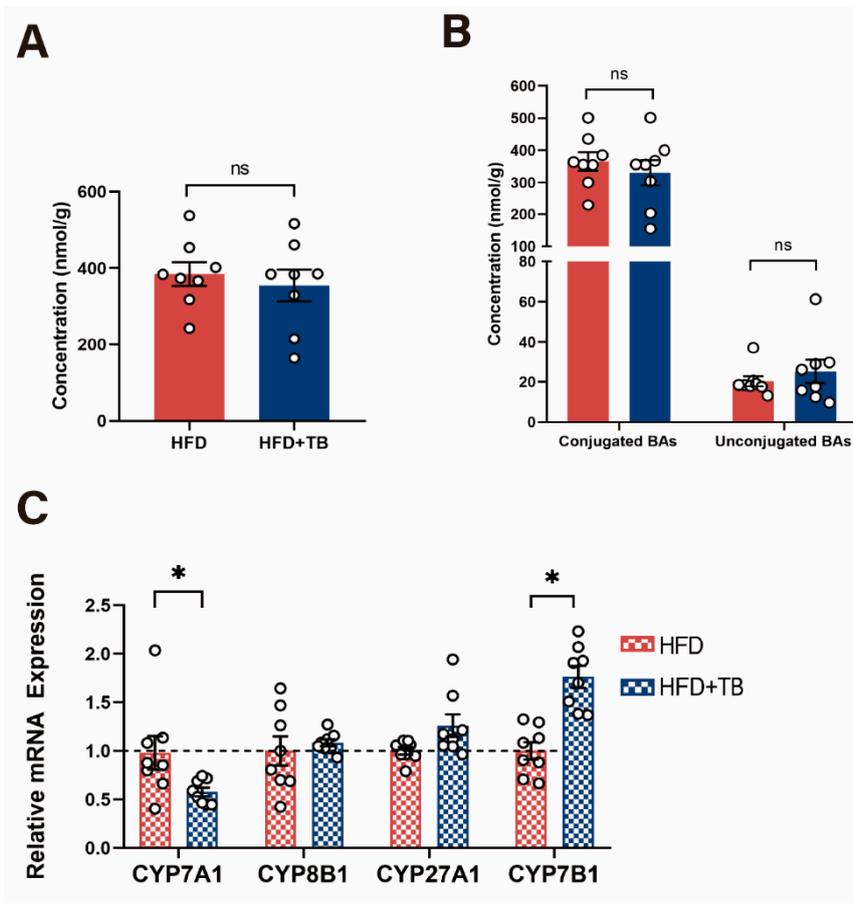
Supplementary Fig S2

(A) Altered BA profiles in serum induced by oral administration of theabrownin for 8 weeks in HFD-induced obesity mice (n=8 per group). (B) Altered BA profiles of ileal contents induced by oral administration of theabrownin for 8 weeks in HFD-induced obesity mice (n=8 per group). Differences between data were assessed using the Mann-Whitney U test with Benjamini-Hochberg adjustment. # p<0.01, *p<0.05



Supplementary Fig S3

TG level in the serum of germ-free mice transplanted with microbiota from control (FMT-HFD group) and theabrownin (FMT-HFD+TB group) treated mice (n=8 per group). Data are presented as the mean±SEM. Differences between data were assessed using the Mann-Whitney U test. #p<0.01, *p<0.05



Supplementary Fig S4

(A) Concentrations of hepatic total bile acids (n=8 per group). (B) Concentrations of conjugated and unconjugated bile acids in the liver (n=8 per group). (C) mRNA

levels of Cyp7a1, Cyp8b1, Cyp27a1, and Cyp7b1 in the liver after theabrownin administration in HFD obese mice for 8 weeks. (n=8 per group). Data are presented as the mean±SEM. Differences between data were assessed using the Mann-Whitney U test. #p<0.01, *p<0.05