

Supplementary information Fig. S12 Combined treatment with VPA and EPZ6438 alleviates DSS-associated colitis

- a, Scheme of the therapeutic treatment with VPA/EPZ6438 on DSS-associated colitis in C57BL/6 mice.
- b, c, Body weight (b) and disease activity index (c) of mice that received regular drinking water alone (Water group, black dotted line), or 2.5% DSS combined with vehicle treatment (Vehicle group, blue dotted line), or 2.5% DSS combined with VPA and EPZ6438 treatment (VPA/EPZ6438 group, orange dotted line) (n = 12 per group). *P* values were determined using one-way ANOVA and two-tailed Mann–Whitney test for body weight and disease activity index, respectively.
- **d**, Colon length at day 12 after DSS induction (n = 6 per group). *P* values were determined using one-way ANOVA.
- e, Representative H&E staining of colon sections, and corresponding histological scores at day 12 after DSS induction (n = 6 per group). Scale bars, 50  $\mu$ m. *P* values were determined by two-tailed Mann–Whitney test.

\*\*\*P < 0.001; \*\*P < 0.01; \*P < 0.05. Experiments in c, d and e were independently

replicated at least twice with similar results.