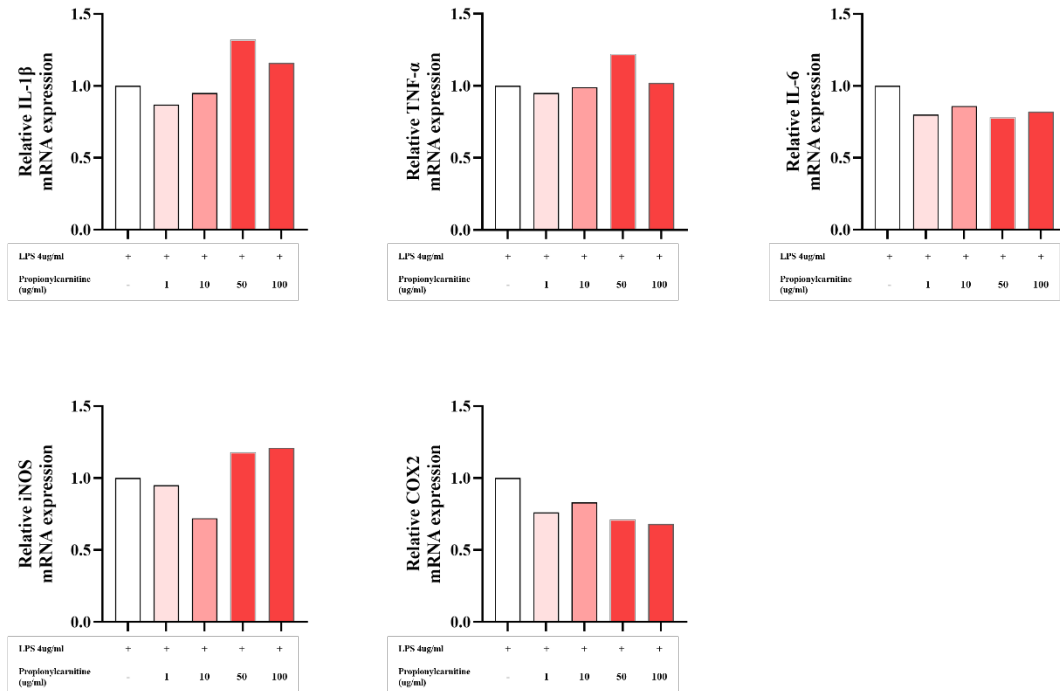
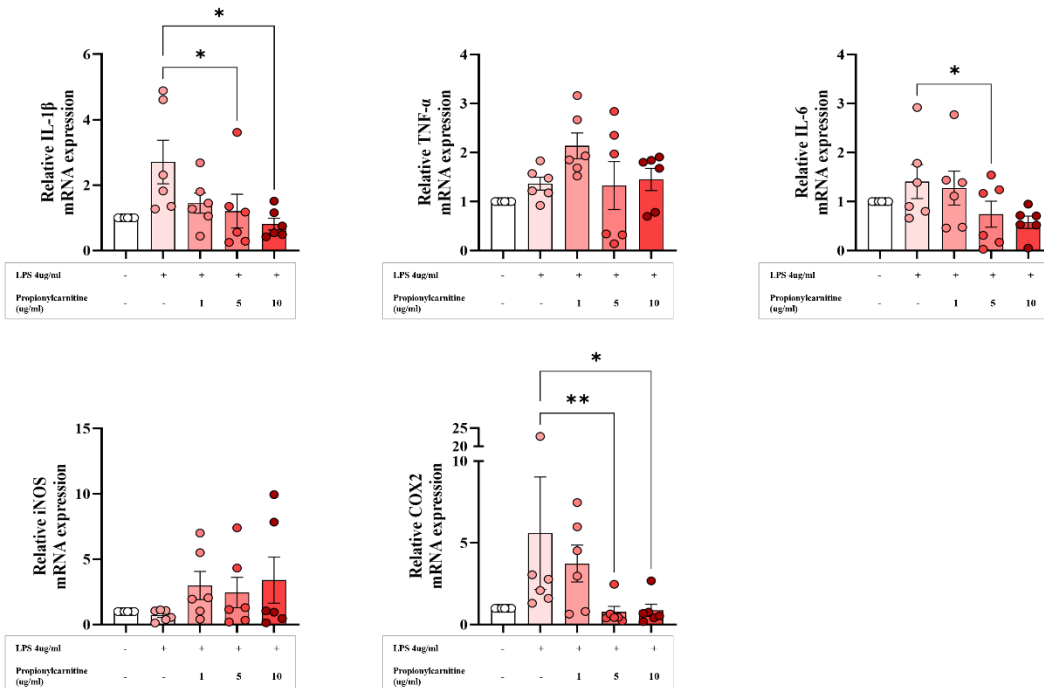


A



B



Supplementary Fig. S3. Preliminary screening for determining concentrations of Propionylcarnitine. (A) RAW 264.7 cells were treated with LPS (4 μg/ml) and increasing concentrations of Propionylcarnitine (1, 10, 50, and 100 μg/ml), and inflammatory cytokine expression levels were measured to evaluate dose-dependent anti-inflammatory effects. (B) Among the tested concentrations, those that did not affect cell viability and exhibited anti-inflammatory effects were further evaluated. RAW 264.7 cells were treated with LPS (4 μg/ml)

and Propionylcarnitine (1, 5, and 10 $\mu\text{g/ml}$), and cytokine expression levels were measured. Based on these results, a single optimal concentration was selected for subsequent experiments. Data are presented as mean $\pm$ SD ($n=6$). Statistical analysis was performed using the Kruskal-Wallis test followed by Dunn's multiple comparisons test. $*P<0.05$, $**P<0.01$. IL, interleukin; TNF, tumor necrosis factor; iNOS, inducible nitric oxide synthase; COX, cyclooxygenase.