



Figure S4. IL-17 expression was regulated by IL-1 β and IL-6 *via* activating Stat3 and ROR γ t. **(A)** Combinatorial treatment of IL-1 β (20 ng/ml) and IL-6 (50 ng/ml) elevated IL-17⁺ cell ratio in culture expanded hMSCs, as assessed by flow cytometry. **(B, C)** The combinatorial IL-1 β and IL-6 treatment increased IL-17 level in 5 \times concentrated culture supernatant, assessed by ELISA **(B)** and elevated IL-17 mRNA, assessed by qPCR **(C)**. **(D)** IL-1 β and IL-6 treatment activated IL-17, p-Stat3 and ROR γ t in hMSCs by Western blot analysis. **(E)** When hMSCs were pretreated with 5,15-DPP, a selective Stat3 inhibitor, for 2h, elevated expression of IL-17 and ROR γ t induced by combinatorial IL-1 β and IL-6 treatment was blocked when 5,15-DPP concentration reached 10 μ M, as assessed by Western blot analysis. *, $P < 0.05$, **, $P < 0.01$, and ***, $P < 0.001$ (mean \pm SD). The data are representative of three independent experiments.