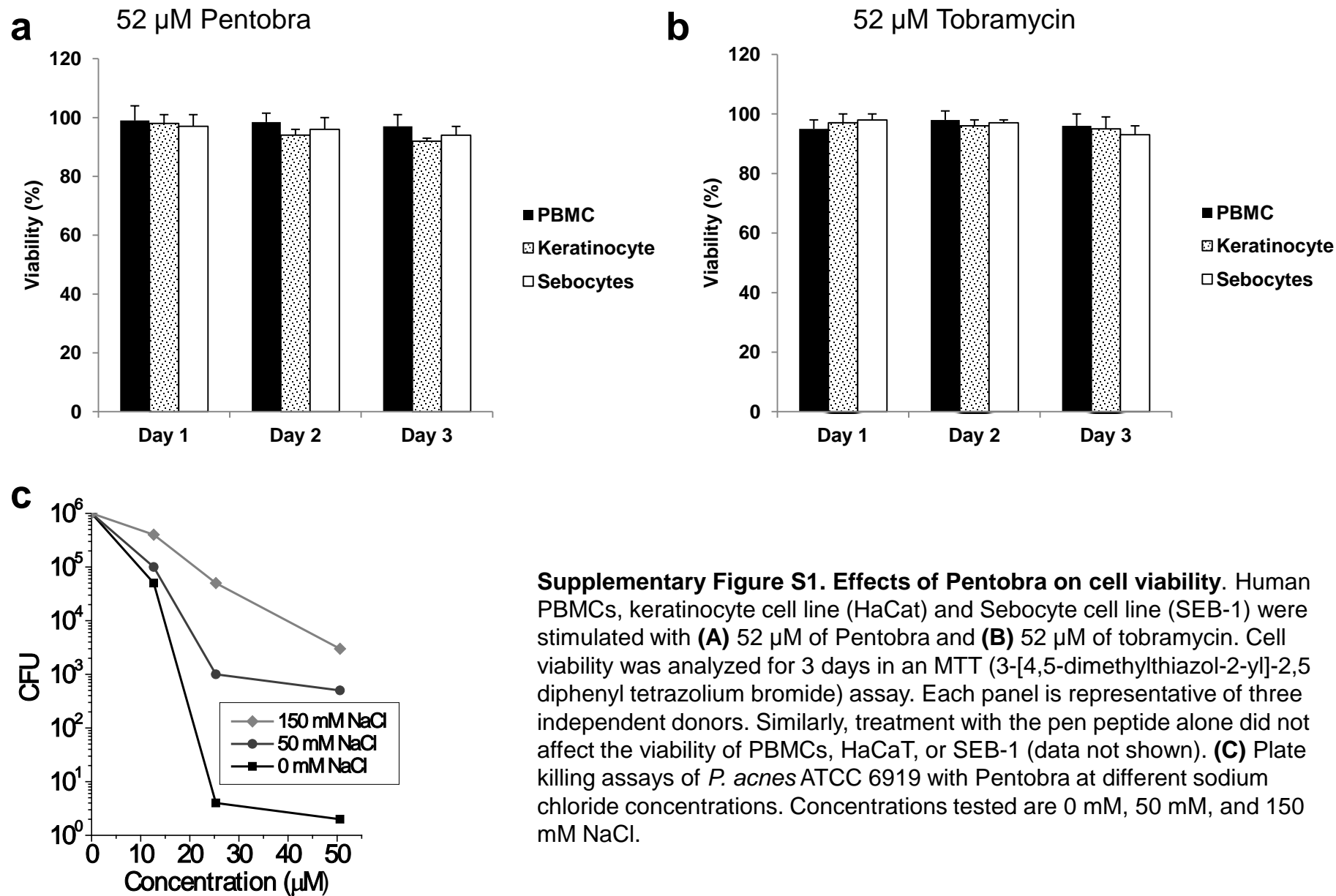
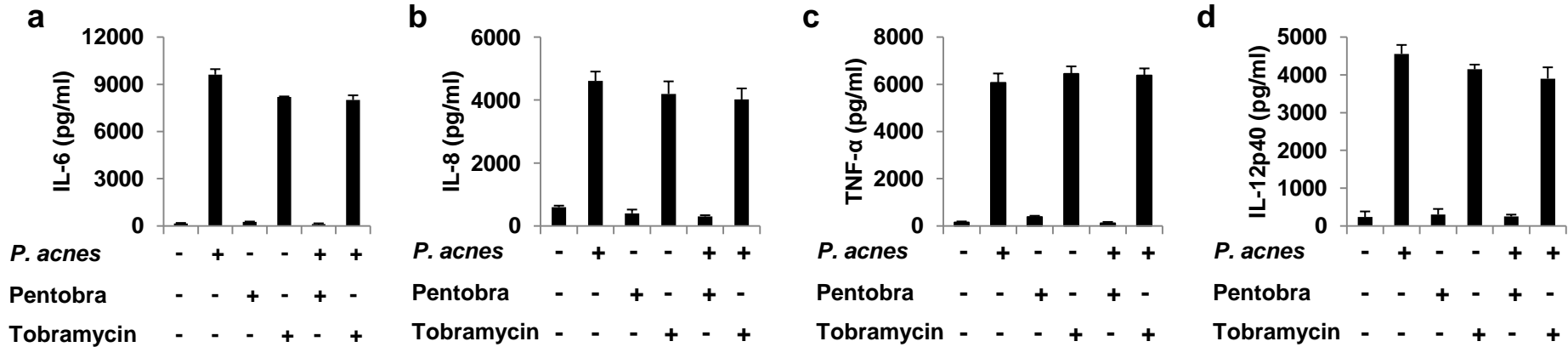


### Supplementary Figure S1



**Supplementary Figure S1. Effects of Pentobra on cell viability.** Human PBMCs, keratinocyte cell line (HaCat) and Sebocyte cell line (SEB-1) were stimulated with **(A)** 52  $\mu$ M of Pentobra and **(B)** 52  $\mu$ M of tobramycin. Cell viability was analyzed for 3 days in an MTT (3-[4,5-dimethylthiazol-2-yl]-2,5 diphenyl tetrazolium bromide) assay. Each panel is representative of three independent donors. Similarly, treatment with the pen peptide alone did not affect the viability of PBMCs, HaCaT, or SEB-1 (data not shown). **(C)** Plate killing assays of *P. acnes* ATCC 6919 with Pentobra at different sodium chloride concentrations. Concentrations tested are 0 mM, 50 mM, and 150 mM NaCl.

## Supplementary Figure S2



**Supplementary Figure S2: Immunomodulatory effects of Pentobra on monocytes stimulated with *P. acnes*.** Adherent monocytes were isolated and cultured ( $2-3 \times 10^6/\text{ml}$ ) with *P. acnes* in the presence of Pentobra ( $26 \mu\text{M}$ ), and tobramycin ( $26 \mu\text{M}$ ). IL-6 (A), IL-8 (B), TNF- $\alpha$  (C), and IL-12p40 (D) protein levels accumulated in culture supernatants were measured using ELISA after 24 hours following stimulation. Data are representative of three independent experiments. Data represent mean SD (\*\* $p \leq 0.001$ ).

**Supplementary table S1.** List of primers used in the study.

Gene symbol	Forward primer sequence	Reverse primer sequence	GenBank Accession number
GAPDH	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG	NM_001256799
IL-12 p40	AAGGAGGCGAGGTTCTAAGC	GCAGGTGAAACGTCCAGAAT	NM_002187
IP-10	GAAATTATTCTGCAAGCCAATT	TCACCCCTTCTTTTCATGTAGCA	NM_001565
MDC	TGGGTTCCATCTCTGTCTCC	AGACCCAGAAGTGGGATGTG	NM_002990
MCP-1	CCCAGTCACCTGCTGTTAT	GCTTCTTTGGGACACTTGCT	NM_002982