Supplementary Figure 3:

Psoriasin bactericidal activity does not cause morphological changes and is not inhibited by Fe$^{2+}$ and Ca$^{2+}$.

(a) Ultrastructure of psoriasin-treated *E. coli*. Approximately $10^8$ CFU *E. coli* ATCC 35218 were treated with 250 µg/ml psoriasin in 100 µl of sodium phosphate buffer (pH 7.4) containing 1% (v/v) TSB for various lengths of time (30-180 min) at 37°C. Determination of remaining CFU indicated complete killing of psoriasin-treated *E. coli*. Untreated bacteria (panel A), bacteria treated with psoriasin for 2 h (panel B and C with high magnification inset) and bacteria treated with the antimicrobial peptide HBD-2 (200 µg/ml) for 2 h (panel D) were examined by transmission electron microscopy. Bars represent 0,2 µM. (b) Preincubation with equimolar concentrations of Fe$^{2+}$ and Ca$^{2+}$ does not influence bactericidal activity of psoriasin. 20 µg/ml psoriasin was pretreated with the indicated concentrations of metal ions and then analyzed for remaining bactericidal activity in the microdilution assay system against *E. coli* ATCC 35218.