

## SHORT ANTIMICROBIAL LIPOPEPTIDES

### Abstract

Disclosed are peptides having biological and therapeutic activity. Particularly disclosed are lipidated di- or tri- peptides analogs of KPV or KdPT that exhibit antimicrobial activity. In particular, the peptides of this invention provide enhanced antimicrobial activity over the base tri -peptides, lysine -proline- valine and lysine-d-proline-tyrosine. The disclosed peptides have the general formula of C12-18 lipid— KXZ-NH<sub>2</sub>i wherein K is lysine; X is proline, d-proline, histidine or arginine; Z is optional and if present Z is valine, threonine, alanine or leucine; and the terminal COOH is NH<sub>2</sub> amidated. The C12-18 lipid is preferably the lipid moiety of lauric acid (C12), myristic acid (C14), pentadecanoic acid (C15), palmitic acid (C16), or stearic acid (C18). The invention is further related to methods of using of these peptides to treat various insults, inflammations or bacterial infections affecting the skin and other related mucosal body surfaces such as the oral cavity.

[NO FIGURE]