



Technology Licensing Office and Life Sciences Incubator
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Linear Lipopeptide Paenipeptins and Methods of Using the Same as Antimicrobials and Potentiators

Application

Linear lipopeptides that are useful as antimicrobial or antibiofilm compositions and potentiators

Key Benefits

- The novel compounds are antimicrobial
- The compounds are antibiofilm
- Useful to sensitize microbes to existing drugs
- Economical to synthesize

Technical Summary

The inventors have synthesized 17 novel compounds and demonstrated their antimicrobial and antibiofilm activities against multiple bacterial targets including both Gram-positive and Gram-negative strains. Additionally, some of the compounds are useful for sensitizing bacteria to existing antibiotic drugs. The compounds have been tested against bacterial cultures and biofilms on a catheter *in vitro* and in a murine thigh infection *E. coli* model. The inventors are presently optimizing a topical formulation for use in skin wound infection.

Developmental Stage

The compounds have been tested in cell culture and in murine models

Patent Information

App Type	Country	Serial No.	Patent No.	File Date	Issue Date
PCT	US	US2018/045395		08/06/2018	

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