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(54) **EXOGENOUS SURFACTANT PROTEIN B MIMIC**

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(57) **ABSTRACT**

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A61K 38/16 (2006.01)
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(52) **U.S. Cl.** **514/12**; 530/324; 435/112; 424/557

(58) **Field of Classification Search** None
See application file for complete search history.

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A composition including a C terminal region having residues corresponding to a peptide identified by PDB ID: 1RG3; an N terminal region having residues corresponding to a peptide identified by PDB ID: 1RG4; and a disulfide linkage between the residues near the C terminal region and the N terminal region. A composition including an exogenous peptide comprising amino acid residues comprising a C terminal region; amino acid residues comprising an N terminal region; a helix-loop-helix conformation between the residues comprising the C terminal region and the residues including the N terminal region; and at least one disulfide linkage between the residues comprising the C terminal region and the residues including N terminal region, wherein the residues including the C terminal region and the residues comprising the N terminal region have an amphiphatic property, and wherein the peptide has an a biological activity comparable to native surfactant protein SP-B. A method including delivering to a body a composition comprising an exogenous peptide having a biological activity comparable to native surfactant protein SP-B. A kit including an exogenous peptide having a biological activity comparable to native surfactant protein SP-B; and a treatment agent different from the peptide.

8 Claims, 12 Drawing Sheets