

Title (en)  
NOVISPRINS: ANTIMICROBIAL PEPTIDES

Title (de)  
NOVISPIRINE: ANTIMIKROBIELLE PEPTIDE

Title (fr)  
NOVISPIRINES: PEPTIDES ANTIMICROBIENS

Publication  
**EP 1359930 A4 20040714 (EN)**

Application  
**EP 01946359 A 20010613**

Priority  
• US 0119094 W 20010613  
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Abstract (en)  
[origin: WO0200839A2] Novisprin peptides are antimicrobial agents with potent activity against Gram-negative bacteria. The peptides are nonhemolytic, exhibit reduced *in vitro* cytotoxicity relative to other antimicrobial peptides, and were well-tolerated *in vivo* after intravenous injection. Novispirins also bind lipopolysaccharide (LPS), a property that may mitigate symptoms associated with Gram-negative bacterial infection. A pharmaceutical composition comprising novispirin as an active agent is administered to a patient suffering from or predisposed to a microbial infection, particularly Gram-negative bacterial infections.

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**C07K 7/08**; **C07K 14/47**; **A61K 38/10**

IPC 8 full level  
**A61K 9/12** (2006.01); **A61K 38/00** (2006.01); **A61K 45/00** (2006.01); **A61K 47/12** (2006.01); **A61P 31/04** (2006.01); **A61P 31/06** (2006.01); **A61P 31/08** (2006.01); **A61P 31/10** (2006.01); **A61P 33/02** (2006.01); **A61P 33/04** (2006.01); **A61P 33/06** (2006.01); **A61P 43/00** (2006.01); **C07K 7/08** (2006.01)

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Citation (search report)  
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• [A] TRAVIS ET AL: "BACTERICIDAL ACTIVITY OF MAMMALIAN CATHELICIDIN-DERIVED PEPTIDES", INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY. WASHINGTON, US, vol. 68, no. 5, May 2000 (2000-05-01), pages 2748 - 2755, XP002157165, ISSN: 0019-9567  
• [PA] BROGDEN K A ET AL: "The ovine cathelicidin SMAP29 kills ovine respiratory pathogens in vitro and in an ovine model of pulmonary infection.", ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. UNITED STATES JAN 2001, vol. 45, no. 1, January 2001 (2001-01-01), pages 331 - 334, XP002279449, ISSN: 0066-4804  
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TOSSI A.; TARANTINO C.; ROMEO D.: "DESIGN OF SYNTHETIC ANTIMICROBIAL PEPTIDES BASED ON SEQUENCE ANALOGY AND AMPHIPATHICITY", EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 250, no. 2, December 1997 (1997-12-01), BERLIN, DE, pages 549 - 558, XP000978718

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**WO 0200839 A2 20020103**; **WO 0200839 A3 20030828**; AU 6842101 A 20020108; BR 0112035 A 20060221; CA 2415236 A1 20020103; EP 1359930 A2 20031112; EP 1359930 A4 20040714; IL 153556 A0 20030706; JP 2004526663 A 20040902

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**US 0119094 W 20010613**; AU 6842101 A 20010613; BR 0112035 A 20010613; CA 2415236 A 20010613; EP 01946359 A 20010613; IL 15355601 A 20010613; JP 2002505955 A 20010613