

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
24 May 2018 (24.05.2018)



(10) International Publication Number
WO 2018/091707 A1

(51) International Patent Classification:

<i>A61K 38/16</i> (2006.01)	<i>A61L 27/00</i> (2006.01)
<i>A61K 38/47</i> (2006.01)	<i>A61F 2/07</i> (2013.01)
<i>A61K 38/48</i> (2006.01)	<i>A61F 13/00</i> (2006.01)
<i>A61P 31/04</i> (2006.01)	<i>A61M 25/10</i> (2013.01)
<i>C07K 7/00</i> (2006.01)	<i>A61L 15/44</i> (2006.01)
<i>C07K 7/06</i> (2006.01)	<i>C12N 5/10</i> (2006.01)
<i>C07K 7/08</i> (2006.01)	<i>C12N 15/62</i> (2006.01)
<i>C07K 14/47</i> (2006.01)	<i>A61K 38/06</i> (2006.01)
<i>C12N 9/36</i> (2006.01)	<i>A61K 38/08</i> (2006.01)
<i>C12N 9/52</i> (2006.01)	<i>A61K 38/10</i> (2006.01)

GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *with sequence listing part of description (Rule 5.2(a))*

(21) International Application Number:

PCT/EP2017/079769

(22) International Filing Date:

20 November 2017 (20.11.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

16199528.7 18 November 2016 (18.11.2016) EP

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

(54) Title: NEW ANTIMICROBIAL AGENTS AGAINST STAPHYLOCOCCUS AUREUS

(57) Abstract: The present invention relates to the field of antimicrobial agents active against Staphylococcus aureus bacteria. In particular, the present invention relates to polypeptides comprising the CHAP domain of LysK endolysin, the M23 endopeptidase domain of lysostaphin, the cell wall binding domain (CBD) of ALE-1, and a further peptide selected from the group consisting of an antimicrobial peptide, an amphipathic peptide, a cationic peptide, a hydrophobic peptide, a sushi peptide and a defensin. In addition, the present invention relates to nucleic acids encoding such polypeptides, vectors comprising such nucleic acids, and corresponding host cells, compositions and devices. Finally, the present invention relates to applications of the inventive polypeptides, in particular in the pharmaceutical field.



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