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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 November 2009 (12.11.2009)

PCT

(10) International Publication Number
WO 2009/137256 A1

(51) **International Patent Classification**:
C07K 7/06 (2006.01) *C07K 7/08* (2006.01)

(21) **International Application Number**:
PCT/US2009/040857

(22) **International Filing Date**:
16 April 2009 (16.04.2009)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/009,326 17 April 2008 (17.04.2008) US
61/113,055 10 November 2008 (10.11.2008) US

(71) **Applicants** *(for all designated States except US)*: **BAXTER INTERNATIONAL INC.** [US/US]; One Baxter Parkway, Deerfield, IL 60015 (US). **BAXTER HEALTHCARE S.A.** [CH/CH]; Hertistrasse 2, CH-8304 Wallisellen (CH).

(72) **Inventors; and**
(75) **Inventors/Applicants** *(for US only)*: **SCHEIFLINGER, Friedrich** [AT/AT]; Michelbeuerngasse 4/17, A-1090 Vienna (AT). **DOCKAL, Michael** [AT/AT]; Mariahilferstrasse 173-175/2/54, A-1150 Vienna (AT).

(74) **Agent**: **WEINSTEIN, Peter, D.**; BAXTER INTERNATIONAL INC., One Baxter Parkway, DF 2-2E, Deerfield, IL 60015 (US).

(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, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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))*

WO 2009/137256 A1

(54) **Title**: BIOLOGICALLY ACTIVE PEPTIDES

(57) **Abstract**: A peptide or peptide derivative comprising: (i) WDLYFEIVW (SEQ ID NO: 1); or (ii) a variant amino acid sequence comprising one, two, three or four L-amino acid substitutions in WDLYFEIVW (SEQ ID NO: 1); or (iii) the retro-inverso variant of the peptide or peptide derivative of either one of parts (i) and (ii), wherein said peptide or peptide derivative has procoagulant activity. A peptide or peptide derivative comprising: (i) an amino acid sequence comprising imfwydcye; or (ii) a variant amino acid sequence comprising one, two, three, four, five or six amino acid substitutions in imfwydcye, wherein said peptide or peptide derivative has procoagulant activity.