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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 August 2011 (11.08.2011)

PCT

(10) International Publication Number
WO 2011/095607 A1

(51) International Patent Classification:
C07K 7/64 (2006.01)

(21) International Application Number:
PCT/EP2011/051686

(22) International Filing Date:
4 February 2011 (04.02.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/EP2010/051417
5 February 2010 (05.02.2010) EP

(71) Applicant *(for all designated States except US)*: **POLYPHOR AG**; Hegenheimermattweg 125, CH-4123 Allschwil (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **GOMBERT, Frank, Otto** [DE/CH]; Paradiesstrasse 2, CH-4102 Binningen (CH). **LEDERER, Alexander** [DE/CH]; Schillerstrasse 10, CH-4053 Basel (CH). **LÖWE, Ralf** [DE/CH]; In der Schappe 28, CH-4144 Arlesheim (CH). **OBRECHT, Daniel** [CH/CH]; Im Eichacker 21, CH-4112 Bättwil (CH). **ROMAGNOLI, Barbara** [IT/CH]; Waldeckweg 24, CH-4102 Binningen (CH). **ZIMMERMANN, Johann** [DE/DE]; Oberdorfstrasse 8, 79424 Auggen (DE). **PATEL, Kalpana** [GB/FR]; 2 Impasse du Tilleul, F-68640 Steinsoultz (FR).

(74) Agent: **BRAUN, André**; Reusstrasse 22, CH-4054 Basel (CH).

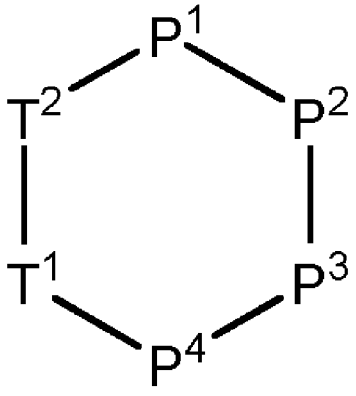
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

(54) **Title**: TEMPLATE-FIXED PEPTIDOMIMETICS WITH CXCR7 MODULATING ACTIVITY



(I)

(57) **Abstract**: Novel template-fixed β-hairpin peptidomimetics of the general formula (I), wherein the single elements T or P are α-amino acid residues connected from the carbonyl (C=O) point of attachment to the nitrogen (N) of the next element in clockwise direction and wherein said elements, depending on their positions in the chain, are defined in the description and the claims have the property to act on the receptor CXCR7. Thus, these β-hairpin peptidomimetics can be useful in the treatment or prevention of diseases or conditions in the area of dermatological disorders, metabolic diseases, inflammatory diseases, fibrotic diseases, infectious diseases, neurological diseases, cardiovascular diseases, respiratory diseases, gastro-intestinal tract disorders, urological diseases, ophthalmic diseases, stomatological diseases, haematological diseases and cancer; or the mobilisation of stem cells.

WO 2011/095607 A1