

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
22 June 2017 (22.06.2017)



(10) International Publication Number
WO 2017/102613 A1

(51) International Patent Classification:

A61K 38/22 (2006.01) *C07K 14/575* (2006.01)
A61K 38/26 (2006.01) *C07K 14/605* (2006.01)

(21) International Application Number:

PCT/EP2016/080553

(22) International Filing Date:

12 December 2016 (12.12.2016)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

15307000.8 14 December 2015 (14.12.2015) EP

(71) Applicant: **SANOFI** [FR/FR]; 54 rue La Boétie, 75008 Paris (FR).

(72) Inventors: **HAACK, Torsten**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **PLETTENBURG, Oliver**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **EVERS, Andreas**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **WAGNER, Michael**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **BOSSART, Martin**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **BETRAND, Romain**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt (DE).

(74) Agent: **ESSLER, Frank**; K703, c/o Sanofi-Aventis Deutschland GmbH, Global Intellectual Property Department, 65926 Frankfurt (DE).

(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, 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, 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))
— with sequence listing part of description (Rule 5.2(a))

(54) Title: SELECTIVE GLUCAGON RECEPTOR AGONISTS COMPRISING A CHELATING MOIETY FOR IMAGING PURPOSES

(57) Abstract: The present invention relates to exendin-4 peptide analogues which selectively bind and activate the glucagon receptor and comprise a chelating moiety capable of binding a metal ion and their use, for example in PET imaging.



WO 2017/102613 A1