



(51) International Patent Classification:

A61P 25/28 (2006.01) C07K 16/28 (2006.01)
C07K 9/00 (2006.01) C07K 16/46 (2006.01)
C07K 16/18 (2006.01) C07K 14/47 (2006.01)

(21) International Application Number:

PCT/EP2014/066355

(22) International Filing Date:

30 July 2014 (30.07.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13179056.0 2 August 2013 (02.08.2013) EP

(71) Applicant (for all designated States except US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(71) Applicant (for US only): **HOFFMANN-LA ROCHE INC.** [US/US]; 340 Kingsland Street, Nutley, New Jersey 07110 (US).

(72) Inventors: **BOHRMANN, Bernd**; Mohrhaldenstrasse 166b, CH-4125 Riehen (CH). **FRESKGARD, Per-Ola**; Rainenweg 140, CH-4153 Reinach BL (CH). **KNOETGEN, Hendrik**; Agathe-Fleissner-Weg 16, 82377 Penzberg (DE). **NIEWOEHNER, Jens**; Leuthener Strasse 21A, 81476 Muenchen (DE).

(74) Agent: **KUENG, Peter**; F. Hoffmann-La Roche AG, Grenzacherstrasse 124, CH-4070 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, BN, 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, IR, IS, JP, KE, KG, 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, 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, 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: THERAPEUTIC FUSION PROTEIN

(57) Abstract: The invention relates to a fusion protein comprising an antibody directed to A β , a monovalent binding entity which binds to a blood brain barrier receptor and a neprilysin.



WO 2015/014884 A1