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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 April 2009 (16.04.2009)

PCT

(10) International Publication Number
WO 2009/047356 A1

(51) International Patent Classification:
C07K 16/18 (2006.01) *C12N 15/63* (2006.01)
C12N 15/13 (2006.01) *A61P 19/10* (2006.01)

(21) International Application Number:
PCT/EP2008/063691

(22) International Filing Date: 10 October 2008 (10.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

07118414.7	12 October 2007 (12.10.2007)	EP
08151911.8	25 February 2008 (25.02.2008)	EP
08161342.4	29 July 2008 (29.07.2008)	EP

(71) Applicant *(for all designated States except US)*: **NOVARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **KNEISSEL, Michaela** [AT/CH]; Breisacherstrasse 35, CH-4057 Basel (CH). **HALLEUX, Christine** [BE/CH]; Saffretweg 3d, CH-4143 Dornach (CH). **HU, Shou-Ih** [US/US]; 171 The Fellsway, New Providence, New Jersey 07974 (US). **DIEFENBACH-STREIBER, Beate** [DE/DE]; Reiherweg 6, 86949 Windach (DE). **PRASSLER, Josef** [DE/DE]; Kriegerstrasse 8a, 82110 Germering (DE).

(74) Agent: **SPINNER, David Richard**; Novartis Pharma AG, Patent Department, CH-4002 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, 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, 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).

Declaration under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(54) Title: COMPOSITIONS AND METHODS FOR USE FOR ANTIBODIES AGAINST SCLEROSTIN

(57) Abstract: The present invention relates to antibodies against sclerostin and compositions and methods of use for said antibodies to treat disease related to bone abnormalities such as osteoporosis.

WO 2009/047356 A1