

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2011/051540 A8

(43) International Publication Date
5 May 2011 (05.05.2011)

(51) International Patent Classification:

C07D 231/14 (2006.01) A61K 31/42 (2006.01)
C07D 401/12 (2006.01) A61K 31/438 (2006.01)
C07D 403/12 (2006.01) A61K 31/497 (2006.01)
C07D 405/12 (2006.01) A61K 31/4523 (2006.01)
C07D 413/12 (2006.01) A61K 31/5377 (2006.01)
C07D 417/12 (2006.01) A61K 31/416 (2006.01)
A61P 35/00 (2006.01) A61K 31/44 (2006.01)

(21) International Application Number:

PCT/FI2010/000065

(22) International Filing Date:

27 October 2010 (27.10.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/255,159 27 October 2009 (27.10.2009) US

(71) Applicant (for all designated States except US): ORION CORPORATION [FI/FI]; Orionintie 1, FI-02200 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WOHLFAHRT, Gerd [FI/FI]; Vattuniemenkatu 14 C 35, FI-00210 Helsinki (FI). TÖRMÄKANGAS, Olli [FI/FI]; Rossinpolku 2 D 4, FI-20380 Turku (FI). SALO, Harri [FI/FI]; Puolikontie 6 C, FI-20300 Turku (FI). HÖGLUND, Iisa [FI/FI]; Kaniikintie 17, FI-20300 Turku (FI). KARJALAINEN, Arja [FI/FI]; Htatie 4 B 6, FI-02210 Espoo (FI). KNUUTTILA, Pia [FI/FI]; Vainamoisenkatu 5, FI-20660 Littoinen (FI). HOLM, Patrik [FI/FI]; Nilsbynkaari 77, FI-21630 Lielähti TL (FI). RASKU, Sirpa [FI/FI]; Kavaljeerintie 14 B 10, FI-01520 Vantaa (FI). VESALAINEN, Anniina [FI/FI]; Kohmontie 10 A 26, FI-20540 Turku (FI).

(74) Agent: ORION CORPORATION; Orionintie 1, FI-02200 Espoo (FI).

(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))

(88) Date of publication of the revised international search report:

23 June 2011

(48) Date of publication of this corrected version:

24 May 2012

(15) Information about Corrections:

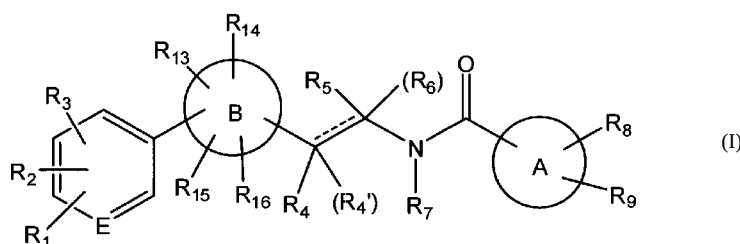
see Notice of 24 May 2012

Previous Corrections:

see Notice of 19 April 2012

see Notice of 23 June 2011

(54) Title: ANDROGEN RECEPTOR MODULATING COMPOUNDS



(57) Abstract: Compounds of formula (I) wherein R to R₁₆, A, B and E are as defined in the claims and pharmaceutically acceptable salts and esters thereof, are disclosed. The compounds of formula (I) possess utility as tissue-selective androgen receptor modulators (SARM) and are particularly useful as medicaments in the treatment of prostate cancer and other AR dependent conditions and diseases where AR antagonism is desired.