

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 February 2010 (04.02.2010)

PCT

(10) International Publication Number
WO 2010/014586 A1

(51) International Patent Classification:
C07D 277/54 (2006.01)

(21) International Application Number:
PCT/US2009/051929

(22) International Filing Date:
28 July 2009 (28.07.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/084,549 29 July 2008 (29.07.2008) US

(71) Applicant (for all designated States except US): **AM-GEN INC.** [US/US]; One Amgen Center Drive, Thousand Oaks, CA 91320-1799 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CAILLE, Seb** [CA/US]; 2061 Valderas Drive, Unit F, Glendale, CA 91208 (US). **CUI, Sheng** [CN/US]; 525 Village Commons Blvd., Camarillo, CA 93012 (US). **WANG, Silas** [CN/US]; 51 Majestic Court, Unit 1006, Moorpark, CA 93021 (US). **FAUL, Margaret** [US/US]; 119 Via Pacifica, Newbury Park, CA 91320 (US).

(74) Agent: **PEET, Richard**; Foley & Lardner LLP, 3000 K Street, N.W., Suite 500, Washinton, DC 20007-5143 (US).

(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, 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, MK, MT, NL, NO, PL, PT, RO, 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: ASYMMETRIC PROCESS FOR MAKING SUBSTITUTED 2-AMINO-THIAZOLONES

(57) Abstract: The invention provides two process for synthesizing substituted aminothiazolone compounds as inhibitors of 11- β -hydroxy steroid dehydrogenase type 1. The processes allow the stereoselective synthesis of the desired compounds without the use of stoichiometric amounts of chiral catalysts.



WO 2010/014586 A1