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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 March 2008 (20.03.2008)

PCT

(10) International Publication Number
WO 2008/033836 A3

(51) International Patent Classification:
C07C 51/367 (2006.01) *C07C 43/205* (2006.01)
C07B 49/00 (2006.01) *C07D 215/56* (2006.01)
C07D 233/54 (2006.01) *C07C 63/68* (2006.01)

(21) International Application Number:
PCT/US2007/078157

(22) International Filing Date:
11 September 2007 (11.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/844,020 12 September 2006 (12.09.2006) US
60/905,365 7 March 2007 (07.03.2007) US

(71) Applicant *(for all designated States except US)*: **GILEAD SCIENCES, INC.** [US/US]; 333 Lakeside Drive, Foster City, CA 94404 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **DOWDY, Eric** [US/US]; 1151 Compass Lane, #203, Foster City, CA 94404 (US). **CHEN, Xi** [CA/US]; 3576 Sunnydays Lane, Santa Clara, CA 95051 (US). **PFEIFFER, Steven** [US/US]; 2727 Foxglove Ct., Pleasanton, CA 94588 (US).

(74) Agents: **HARRIS, Robert, J.** et al.; Viksnins Harris & Padys PLLP, P.O. Box 111098, St. Paul, MN 55111-1098 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
22 May 2008

WO 2008/033836 A3

(54) Title: PROCESS AND INTERMEDIATES FOR PREPARING INTEGRASE INHIBITORS

(57) Abstract: The invention provides synthetic processes and synthetic intermediates that can be used to prepare 4-oxoquinolone compounds having useful integrase inhibiting properties.