

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 April 2011 (28.04.2011)

(10) International Publication Number
WO 2011/049825 A1

(51) International Patent Classification:

C07D 473/16 (2006.01) **A61K 31/522** (2006.01)
C07D 473/18 (2006.01) **A61P 31/12** (2006.01)
C07D 473/24 (2006.01) **C07D 473/34** (2006.01)

(21) International Application Number:

PCT/US2010/052802

(22) International Filing Date:

15 October 2010 (15.10.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/254,103 22 October 2009 (22.10.2009) US
61/366,790 22 July 2010 (22.07.2010) 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): **HALCOMB, Randall, L.** [US/US]; 892 Gull Avenue, Foster City, CA 94404 (US). **ROETHLE, Paul, A.** [US/US]; 675 Guerrero Street, San Francisco, CA 94110 (US).

(74) Agents: **MCGURL, Barry, F.** et al.; Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404 (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, 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))

(54) Title: DERIVATIVES OF PURINE OR DEAZAPURINE USEFUL FOR THE TREATMENT OF (INTER ALIA) VIRAL INFECTIONS

(57) Abstract: The present application includes novel modulators of TLRs, compositions containing such compounds, therapeutic methods that include the administration of such compounds.



WO 2011/049825 A1