



(51) International Patent Classification:

C07D 271/06 (2006.01) A61K 31/4245 (2006.01)
C07D 285/08 (2006.01) A61K 31/433 (2006.01)

(21) International Application Number:

PCT/IB2014/064279

(22) International Filing Date:

5 September 2014 (05.09.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

4011/CHE/2013 6 September 2013 (06.09.2013) IN

(71) Applicant: AURIGENE DISCOVERY TECHNOLOGIES LIMITED [IN/IN]; 39-40, KIADB Industrial Area, Electronic City Phase II, Hosur Road, Bangalore 560 100, Karnataka (IN).

(72) Inventors: SASIKUMAR, Pottayil Govindan Nair; # 5, Deccan Palms, Ananth Nagar Phase II, Electronic City Post, Bangalore 560 100 (IN). RAMACHANDRA, Muralidhara; V173, Adarsh Palm Retreat, Outer Ring, Road, Bellandur Post, Bangalore 560 103 (IN). NAREMADDE-PALLI, Seetharamaiah Setty Sudarshan; 33/A, Shenimahathama temple compound, R. K. Layout, K. G. Nagar, Bangalore 560 019 (IN).

(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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations 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 (Art. 21(3))

(54) Title: 1,2,4-OXADIAZOLE DERIVATIVES AS IMMUNOMODULATORS

(57) Abstract: The present invention relates to 1,2,4-oxadiazole and 1,2,4-thiadiazole compounds as therapeutic agents capable of inhibiting the programmed cell death 1 (PD1) signaling pathway. The invention also refers to derivatives of the therapeutic agents. The invention also encompasses the use of the said therapeutic agents and 5 derivatives for treatment of disorders via immunopotential comprising inhibition of immunosuppressive signal induced due to PD-1, PD-L1, or PD-L2 and therapies using them.

