(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)

PCT

(10) International Publication Number
WO 2011/047860 A1

(51) International Patent Classification:
C07D 513/04 (2006.01) *A61P 25/08* (2006.01)
A61K 31/433 (2006.01)

(21) International Application Number:
PCT/EP2010/006434

(22) International Filing Date:
21 October 2010 (21.10.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09173912.8 23 October 2009 (23.10.2009) EP

(71) Applicant *(for all designated States except US)*: **UCB PHARMA, S.A.** [BE/BE]; Intellectual Property Department, 60, allée de la Recherche, B-1070 Brussels (BE).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **QUESNEL, Yannick** [FR/BE]; c/o UCB Pharma, S.A., 60, allée de Ia Recherche, B-1070 Brussels (BE).

(74) Agent: **UCB**; Intellectual Property, c/o UCB Pharma S.A., Intellectual Property Department, 60, allée de Ia Recherche, B-1070 Brussels (BE).

(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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

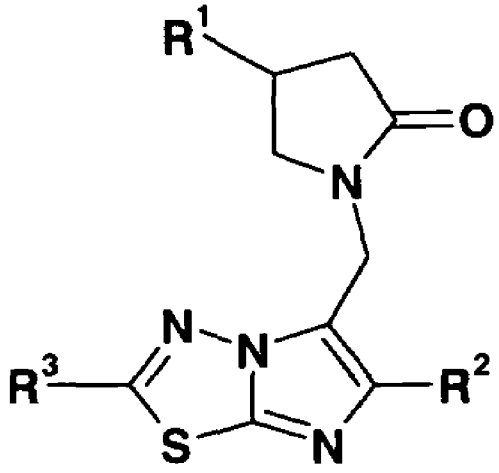
— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

WO 2011/047860 A1

(54) Title: 2-OXO-1-PYRROLIDINYL IMIDAZOTHIADIAZOLE DERIVATIVES



(I)

(57) Abstract: The present invention relates to 2-oxo-1-pyrrolidine imidazothiadiazole derivatives, processes for preparing them, pharmaceutical compositions containing them and their use as pharmaceuticals.