

(43) International Publication Date
7 March 2013 (07.03.2013)(10) International Publication Number
WO 2013/030218 A1

(51) International Patent Classification:

C07D 401/06 (2006.01) *A61P 19/00* (2006.01)
C07D 409/14 (2006.01) *A61P 37/00* (2006.01)
A61K 31/517 (2006.01) *A61P 9/00* (2006.01)
A61P 35/00 (2006.01) *A61P 31/00* (2006.01)
A61P 25/00 (2006.01) *A61P 3/00* (2006.01)

(21) International Application Number:

PCT/EP2012/066741

(22) International Filing Date:

29 August 2012 (29.08.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11306096.6 2 September 2011 (02.09.2011) EP

(71) Applicant (for all designated States except US): **HYBRI-GENICS SA** [FR/FR]; 3/5 Impasse Reille, F-75014 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COLLAND, Frédéric** [FR/FR]; 16 rue du Manoir, F-95380 Puiseux En France (FR). **GOURDEL, Marie-Edith** [FR/FR]; 43 rue Grande, F-77176 Savigny Le Temple (FR).

(74) Agents: **BLOT, Philippe** et al.; Cabinet Lavoix, 2, place d'Estienne d'Orves, F-75009 Paris (FR).

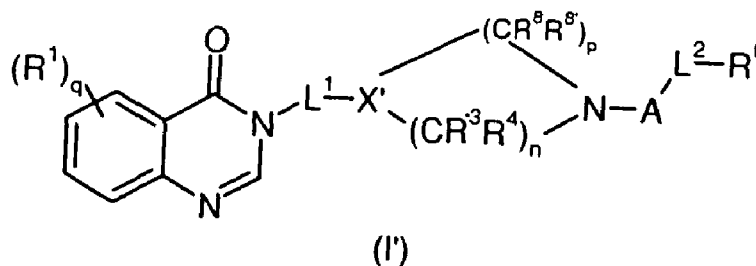
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, 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, QA, RO, RS, RU, RW, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: SELECTIVE AND REVERSIBLE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 7



(57) Abstract: The present invention relates to quinazolin-4-one compounds of formula (I'), their process of preparation and uses thereof. These compounds are useful as selective and reversible inhibitors of ubiquitin specific proteases, particularly USP7, for treating e.g. cancer, neurodegenerative diseases, inflammatory disorders and viral infections.