



(51) International Patent Classification:

C07D 401/12 (2006.01) *A61P 35/00* (2006.01)
C07D 401/14 (2006.01) *A61P 35/02* (2006.01)
A61K 31/438 (2006.01) *A61P 35/04* (2006.01)
A61K 31/444 (2006.01)

(21) International Application Number:

PCT/CN2013/000216

(22) International Filing Date:

1 March 2013 (01.03.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/606,291 2 March 2012 (02.03.2012) US

(71) Applicants: **GENENTECH, INC.** [US/US]; 1 DNA Way, South San Francisco, California 94080-4990 (US). **FORMA TM, LLC** [US/US]; 500 Arsenal Street, Suite 100, Watertown Massachusetts 02472 (US).

(72) Inventor; and

(71) Applicant (*for US only*): **YUEN, Po-Wai** [US/CN]; 6 Tai-He Road BDA, Beijing 100176 (CN).

(72) Inventors: **BAIR, Kenneth, W.**; 1 DNA Way, South San Francisco, California 94080-4990 (US). **BAUMEISTER, Timm, R.**; 500 Arsenal Street, Suite 100, Watertown, Massachusetts 02472 (US). **DRAGOVICH, Peter**; 1 DNA Way, South San Francisco, California 94080-4990 (US). **LIU, Xiongcai**; 6 Tai-He Road, BDA, Beijing 100176 (CN). **PATEL, Snahel**; 1 DNA Way, South San Francisco, California 94080-4990 (US). **ZAK, Mark**; 1 DNA Way, South San Francisco, California 94080-4990 (US). **ZHAO, Guiling**; 1 DNA Way, South San Francisco, California 94080-4990 (US). **ZHANG, Yamin**; 6 Tai-He Road, BDA, Beijing 100176 (CN). **ZHENG, Xiaozhang**; 500

Arsenal Street, Suite 100, Watertown, Massachusetts 02472 (US).

(74) Agent: **LIU, SHEN & ASSOCIATES**; A0601, Huibin Building, No. 8, Beichen Dong Street, Chaoyang District, Beijing 100101 (CN).

(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, PA, 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).

Declarations under Rule 4.17:

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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

(54) Title: AMIDO SPIROCYCLIC AMIDE AND SULFONAMIDE DERIVATIVES

(57) Abstract: Provided are amido spirocyclic amide and sulfonamide compounds, pharmaceutical compositions comprising such compounds, and methods of treatment using such compounds.

