

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 October 2006 (05.10.2006)

PCT

(10) International Publication Number
WO 2006/105372 A3

(51) International Patent Classification:

C07D 413/02 (2006.01) **A61K 31/661** (2006.01)
C07D 487/04 (2006.01) **A61K 31/519** (2006.01)
C07F 9/09 (2006.01) **A61K 31/497** (2006.01)
A61K 31/5355 (2006.01)

(21) International Application Number:

PCT/US2006/011846

(22) International Filing Date: 29 March 2006 (29.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/666,899 30 March 2005 (30.03.2005) US

(71) Applicant (*for all designated States except US*):
CONFORMA THERAPEUTICS CORPORATION
[US/US]; 9393 Towne Centre Drive, Suite 240, San Diego,
CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **KASIBHATLA,**
Srinivas, R. [US/US]; 13073 Dressage Lane, San Diego,
CA 92130 (US). **BIAMONTE, Marco, A.** [US/US];
11128 Portobelo Drive, San Diego, CA 92124 (US).
SHI, Jiandong [CN/US]; 7556 Charmant Drive #1724,
San Diego, CA 92122-5056 (US). **BOEHM, Marcus, F.**
[US/US]; 2811 Maple Street, San Diego, CA 92104 (US).

(74) Agents: **ELAMRANI, Samir** et al.; Wilson Sonsini
Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA
94304-1050 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
19 July 2007

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: ALKYNYL PYRROLOPYRIMIDINES AND RELATED ANALOGS AS HSP90-INHIBITORS

(57) Abstract: Alkynyl pyrrolo[2,3-d]pyrimidines and related analogs are described and demonstrated to have utility as Heat Shock Protein 90 (HSP90) inhibiting agents used in the treatment and prevention of various HSP90 mediated disorders. Methods of synthesis and use of such compounds are also described and claimed.



WO 2006/105372 A3