(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 August 2001 (09.08.2001)

PCT

(10) International Publication Number
WO 01/57022 A2

(51) International Patent Classification[7]: C07D 403/00

(21) International Application Number: PCT/US01/03911

(22) International Filing Date: 5 February 2001 (05.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/180,506	5 February 2000 (05.02.2000)	US
60/191,956	24 March 2000 (24.03.2000)	US
60/242,935	24 October 2000 (24.10.2000)	US

(71) Applicant *(for all designated States except US)*: **VERTEX PHARMACEUTICALS INCORPORATED** [US/US]; Patent Department, 130 Waverly Street, Cambridge, MA 02139-4242 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **GREEN, Jeremy** [US/US]; 21 Greystone Court, Burlington, MA 01803 (US). **CAO, Jingrong** [CN/US]; 45 Madison Avenue, Newton, MA 02460 (US). **HALE, Michael** [US/US]; 42 Sunset Road, Bedford, MA 01730 (US). **BAKER, Christopher** [US/US]; 33 Curve Street, Bedford, MA 01730 (US). **MALTAIS, Francois** [FR/US]; 289 Highland Avenue #301, Somerville, MA 02144 (US). **JANETKA, James** [US/US]; 32 Washington Street, Beverly, MA 01915 (US). **MULLICAN, Michael** [US/US]; 110 Parker Road, Needham, MA 02194 (US). **BEMIS, Guy** [US/US]; 256 Appleton Street, Arlington, MA 02476 (US). **XIE, Xiaoling** [CN/US]; 71 Elme Street, Apt. 3, Cambridge, MA 02139 (US). **STRAUB, Judith** [US/US]; 70 Kinnaird Street, Cambridge, MA 02139 (US). **TANG, Qing** [CN/US]; 2277 Massachusetts Avenue #5, Cambridge, MA 02140 (US). **MASHALL, Robert** [US/US]; 95 Prince Street, West Newton, MA 02165 (US).

(74) Agents: **ROBIDOUX, Andrea**; Vertex Pharmaceuticals Inc., 130 Waverly Street, Cambridge, MA 02139 et al. (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

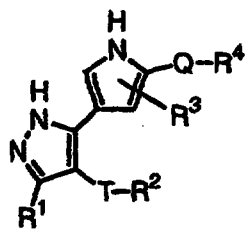
Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/57022 A2

(54) Title: PYRAZOLE COMPOSITIONS USEFUL AS INHIBITORS OF ERK



(I)

(57) Abstract: Described herein are compounds that are useful as protein kinase inhibitors having the formula: (I) where R^{1-4}, Q, and T are described inthe specification. The compounds are useful for treating disease states in mammals that are alleviated by a protein kinase inhibitor, particularly diseases such as cancer, inflammatory disorders, restenosis, and cardiovascular disease.