



(51) International Patent Classification:

C07D 471/04 (2006.01) A61P 35/02 (2006.01)

A61K 31/4375 (2006.01)

(21) International Application Number:

PCT/IN2014/000777

(22) International Filing Date:

15 December 2014 (15.12.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2781/CHE/2014 6 June 2014 (06.06.2014) IN

(71) Applicant: NATCO PHARMA LIMITED [IN/IN];

Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN).

(72) Inventors: KOMPELLA, Amala; Natco Pharma Limited,

Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN). GAMP, Venugopala Krishna;

Natco Pharma Limited, Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN). GANGANA-

MONI, Srinivasulu; Natco Pharma Limited, Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN). SIRIGIREDDY, Balakrishna Reddy;

Natco Pharma Limited, Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN). ADIBHATLA, Kali Satya

Bhujanga Rao; Natco Pharma Limited, Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN). NANNAPANENI, Venkaiah Chowdary; Natco

Pharma Limited, Natco House, Road No.2, Banjara Hills, Telangana, Hyderabad 500034 (IN).

(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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, 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, SA, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

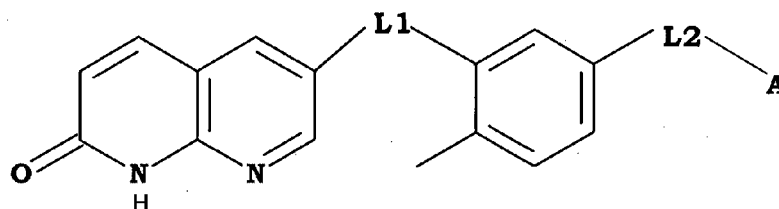
Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: 1H-1,8- NAPHTHYRIDIN-2ONES AS ANTI PROLIFERATIVE COMPOUNDS



Formula (I)

(57) Abstract: The present invention relates to novel antiproliferative 1H-1, 8-naphthyridin-2-ones of the general formula (I) or pharmaceutically acceptable salts thereof: In which the variable groups are as defined herein, and their preparation and use in therapeutic treatment of disorders related to inhibition of tyrosine kinases in warm blooded animals. The compounds can overcome imatinib induced drug resistance.

