



(43) International Publication Date
18 September 2014 (18.09.2014)

(10) International Publication Number
WO 2014/143601 A1

(51) International Patent Classification:
C07D 403/14 (2006.01)

(21) International Application Number:
PCT/US2014/021466

(22) International Filing Date:
7 March 2014 (07.03.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/782,798 14 March 2013 (14.03.2013) US
61/789,108 15 March 2013 (15.03.2013) US

(71) Applicant: **ELI LILLY AND COMPANY** [US/US];
Lilly Corporate Center, Indianapolis, Indiana 46285 (US).

(72) Inventors: **DALLY, Robert Dean**; c/o Eli Lilly and Com-
pany, P. O. Box 6288, Indianapolis, Indiana 46206-6288
(US). **WOODS, Timothy Andrew**; c/o Eli Lilly and Com-
pany, P. O. Box 6288, Indianapolis, Indiana 46206-6288
(US).

(74) Agents: **HOSTETTLER, Danica** et al.; Eli Lilly and
Company, P. O. Box 6288, Indianapolis, Indiana 46206-
6288 (US).

(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, 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, 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, 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:

- *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*
- *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: CDC7 Inhibitors

(57) Abstract: The present invention provides isoindolinone compounds, or a pharmaceutically acceptable salt thereof, that inhibit CDC7 and, therefore may be useful in treating cancer.



WO 2014/143601 A1