



(51) International Patent Classification:

C07D 401/14 (2006.01) *A61P 1/16* (2006.01)
C07D 413/12 (2006.01) *A61K 31/42* (2006.01)
A61P 3/00 (2006.01) *A61K 31/44* (2006.01)
A61P 13/12 (2006.01)

(21) International Application Number:

PCT/US2015/000162

(22) International Filing Date:

22 December 2015 (22.12.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/096,406 23 December 2014 (23.12.2014) US
 62/269,066 17 December 2015 (17.12.2015) US

(71) Applicant: GILEAD SCIENCES, INC. [US/US]; 333
Lakeside Drive, Foster City, CA 94404 (US).

(72) Inventors: ANDRES, Mark; 2307 Sycamore Lane, West
Lafayette, IN 47906 (US). CARRA, Ernest, A.; c/o Gilead
Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404
(US). CHAN, Brenda, J. Burke; c/o Gilead Sciences, Inc.,
333 Lakeside Drive, Foster City, CA 94404 (US). CHIU,
Anna; c/o Gilead Sciences, Inc., 333 Lakeside Drive,
Foster City, CA 94404 (US). LAPINA, Olga, Viktorovna;
c/o Gilead Sciences, Inc., 333 Lakeside Drive, Foster City,
CA 94404 (US). LATHROP, Stephen, P.; c/o Gilead Sci-
ences, Inc., 333 Lakeside Drive, Foster City, CA 94404
(US). SMOLENSKAYA, Valeriya; 3409 Cheswick Ct.,
Apt. 1, West Lafayette, IN 47906 (US). YU, Lok, Him; c/o
Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA
94404 (US).

(74) Agents: TANNER, Lorna, L. et al.; Sheppard Mullin
Richter & Hampton LLP, 379 Lytton Avenue, Palo Alto,
CA 94301-1479 (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, 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).

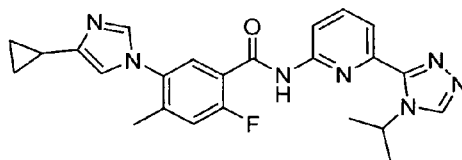
Declarations under Rule 4.17:

— 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: SOLID FORMS OF AN ASK1 INHIBITOR



Compound I

(57) Abstract: Crystalline forms of 5-(4-cyclopropyl-1H-imidazol-1-yl)-N-(6-(4-isopropyl-4H-1,2,4-triazol-3-yl)pyridin-2-yl)-2-fluoro-4-methylbenzamide (Compound I) were prepared and characterized in the solid state: Also provided are processes of manufacture and methods of using the crystalline forms.