

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 October 2020 (08.10.2020)



(10) International Publication Number
WO 2020/200918 A1

(51) International Patent Classification:

C07D 487/04 (2006.01) A61P 11/10 (2006.01)
A61P 11/06 (2006.01) A61K 31/519 (2006.01)

(21) International Application Number:

PCT/EP2020/058168

(22) International Filing Date:

24 March 2020 (24.03.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

19167245.0 04 April 2019 (04.04.2019) EP

(71) Applicant: **CHIESI FARMACEUTICI S.P.A.** [IT/IT];
Via Palermo 26/A, 43122 Parma (IT).

(72) Inventors: **BIAGETTI, Matteo**; Via Palermo 26/A, 43122
Parma (IT). **RONCHI, Paolo**; Via Palermo 26/A, 43122
Parma (IT). **FIGORELLI, Claudio**; Via Palermo 26/A,
43122 Parma (IT). **BRUNO, Paolo**; Via Palermo 26/A,
43122 Parma (IT).

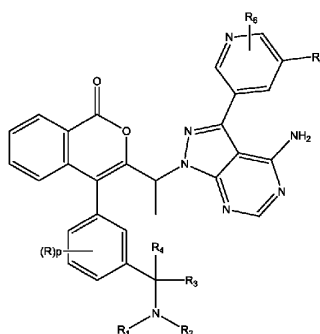
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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).

Published:

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

(54) Title: ISOCHROMENE DERIVATIVES AS PHOSPHOINOSITIDE 3-KINASES INHIBITORS



(I)

(57) Abstract: The invention relates to compounds of formula (I) inhibiting phosphoinositide 3-kinases (PI3K), to pharmaceutical compositions comprising them and therapeutic use thereof in the treatment of disorders associated with PI3K enzymes.

WO 2020/200918 A1