

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2021/257532 A1

(43) International Publication Date
23 December 2021 (23.12.2021)

(51) International Patent Classification:

A61K 31/4439 (2006.01) A61P 7/06 (2006.01)
A61K 31/455 (2006.01)

(21) International Application Number:

PCT/US2021/037377

(22) International Filing Date:

15 June 2021 (15.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/039,742	16 June 2020 (16.06.2020)	US
63/056,761	27 July 2020 (27.07.2020)	US
63/152,516	23 February 2021 (23.02.2021)	US

(71) Applicant: **INCYTE CORPORATION** [US/US]; 1801
Augustine Cut-Off, Wilmington, DE 19803 (US).

(72) Inventors: **SÉGUY, Francis**; Avenue Sainte-Luce 12,
1003 Lausanne (CH). **ASATIANI, Ekaterine**; Chmin Des
Pontets 13, 1297 Founex (CH). **CHEN, Yaoyu**; 9 Willow
Creek Lane, Newark, DE 19711 (US).

(74) Agent: **TRINQUE, Brian C.** et al.; Lathrop GMP LLP, 28
State Street, 7th Floor, Boston, MA 02109 (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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, 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: ALK2 INHIBITORS FOR THE TREATMENT OF ANEMIA

(57) Abstract: Provided herein are methods of treating anemia in a subject in need thereof comprising administering to the subject a therapeutically effective amount of an ALK2 inhibitor.



WO 2021/257532 A1