

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
07 September 2018 (07.09.2018)



(10) International Publication Number
WO 2018/160521 A3

(51) International Patent Classification:
C07D 401/12 (2006.01) C07D 471/04 (2006.01)

(21) International Application Number:
PCT/US2018/019838

(22) International Filing Date:
27 February 2018 (27.02.2018)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/464,693 28 February 2017 (28.02.2017) US

(71) Applicant: LAZULI, INC. [US/US]; 35 Gatehouse Drive
A2, Waltham, MA 02451 (US).

(72) Inventors: BREWER, Mark; Tramora Bottom
Lane, Checkendon, Reading, Oxon R98 0NR (US).
BURSAVICH, Matthew, Gregory; 172 Damon Road,
Needham, MA 02494 (US). GERASYUTO, Aleksey, Lgo-
revich; 20 Skyline Drive, Flemington, NJ 08822 (US).
HAHN, Kristopher, Neil; 32 Webster Street, Medford,
MA 02155 (US). HARRISON, Bryce, Alden; 7 Old Wood
Road, Framingham, MA 01701 (US). KONZE, Kyle,
David; 224 E. 70 Street, Apt. 6, New York, NY 10021 (US).
LIN, Fu-yang; 44 Saxony Drive, Sudbury, MA 01776
(US). LIPPA, Blaise, Scott; 340 Pope Road, Concord,
MA 01742 (US). LUGOVSKOY, Alexey, Alexandrovich;
35 Audrey Road, Belmont, MA 02478 (US). ROGERS,
Bruce, Nelsen; 252 Common Street, Belmont, MA 02478
(US). SVENSSON, Mats, Ake; 160 West 24th Street, Apt.
19C, New York, NY 10011 (US). TROAST, Dawn, Marie;
325 Springs Road, Bedford, MA 01730 (US).

(74) Agent: GORDON, Dana, M. et al.; Foley Hoag LLP, 155
Seaport Boulevard, Boston, MA 02210-2600 (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, 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, 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))
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
11 October 2018 (11.10.2018)

WO 2018/160521 A3

(54) Title: INHIBITORS OF (ALPHA-V)(BETA-6) INTEGRIN

(57) Abstract: Disclosed are small molecule inhibitors of $\alpha\beta 6$ integrin, and methods of using them to treat a number of diseases and conditions.