



(51) International Patent Classification:

A61P 35/00 (2006.01) C07K 14/47 (2006.01)
A61K 51/08 (2006.01) A61K 38/00 (2006.01)
C07K 7/08 (2006.01)

(21) International Application Number:

PCT/US2024/033877

(22) International Filing Date:

13 June 2024 (13.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/508,208 14 June 2023 (14.06.2023) US
63/554,470 16 February 2024 (16.02.2024) US

(71) Applicant: **MARIANA ONCOLOGY INC.** [US/US];
100 Forge Road, Suite 600, Watertown, Massachusetts
02472 (US).

(72) Inventors: **METCALF III, Chester A.**; 70 Blake Street,
Needham, Massachusetts 02492 (US). **HUANG, Chun-**

hui; 157 Woodside Lane, Arlington, Massachusetts 02474
(US). **WAN, Murray**; 155 Sturges Street, Medford, Mass-
achusetts 02155 (US). **BRUTON, Thomas C.**; 404 Piscas-
sic Street, Newmarket, New Hampshire 03857 (US). **MA,
Zhong**; 2 Jonathan Lane, Bedford, Massachusetts 01730
(US). **WU, Lihua**; 48 Selwyn Rd., Belmont, Massachusetts
01730 (US). **COSTANTE, Roberto**; Via Padova 15, 00071
Pomezia (IT). **BRANCA, Danila**; Via Pietro Nenni 26B,
00071 Pomezia (IT). **RICARDO, Alonso**; 5 Wagon Wheel
Rd., Winchester, Massachusetts 01890 (US).

(74) Agent: **TRINQUE, Brian**; LATHROP GPM LLP, 28
STATE STREET, SUITE 700, Boston, Massachusetts
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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,

(54) Title: DLL3 TARGETING PEPTIDES AND CONSTRUCTS THEREOF

ELISA of DLL3 Short Constructs

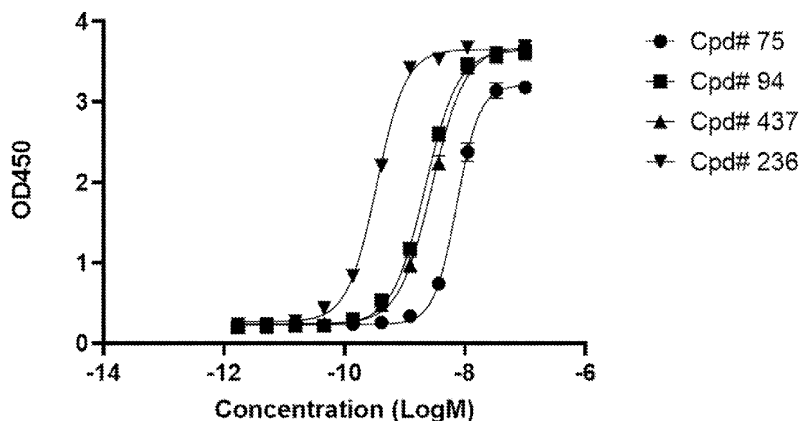


Fig. 1

(57) Abstract: The present disclosure relates to targeting moieties such as peptides that can bind to DLL3. The disclosure also provides targeting constructs, which may include a targeting moiety attached, via an optional linker, to a chelating agent for association of a cargo. Methods of making the constructs and formulations thereof are also provided. Methods of using the constructs and/or formulations thereof to treat subjects, for example, to treat or prevent cancer, are also described.

[Continued on next page]

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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))*
- *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))*