



(51) International Patent Classification:

C07D 471/04 (2006.01) A61P 35/00 (2006.01)
A61K 31/4375 (2006.01) C07D 239/28 (2006.01)
A61K 31/4709 (2006.01) C07D 401/14 (2006.01)
A61K 31/496 (2006.01) C07D 403/12 (2006.01)
A61K 31/501 (2006.01) C07D 417/14 (2006.01)
A61K 31/506 (2006.01) C07D 487/04 (2006.01)
A61K 31/53 (2006.01) C07D 519/00 (2006.01)
A61K 31/5513 (2006.01) C07K 14/72 (2006.01)
A61K 38/00 (2006.01)

(21) International Application Number:

PCT/US2024/051103

(22) International Filing Date:

11 October 2024 (11.10.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/589,861 12 October 2023 (12.10.2023) US
63/636,293 19 April 2024 (19.04.2024) US

(71) Applicant: **KOLM THERAPEUTICS INC.** [US/US]; 4 Research Dr., Woodbridge, Connecticut 06525 (US).(72) Inventors: **NEKLESA, Taavi**; 4 Research Dr., Woodbridge, Connecticut 06525 (US). **VIGIL, Dominico**; 4 Research Dr., Woodbridge, Connecticut 06525 (US). **LEFKER, Bruce A.**; 4 Research Dr., Woodbridge, Connecticut 06525 (US). **ROBINSON, Ralph P.**; 4 Research Dr.,

Woodbridge, Connecticut 06525 (US). **RAY, Soumya**; 4 Research Dr., Woodbridge, Connecticut 06525 (US). **BOSANAC, Todd**; 4 Research Dr., Woodbridge, Connecticut 06525 (US). **HIRD, Alexander W.**; 4 Research Dr., Woodbridge, Connecticut 06525 (US).

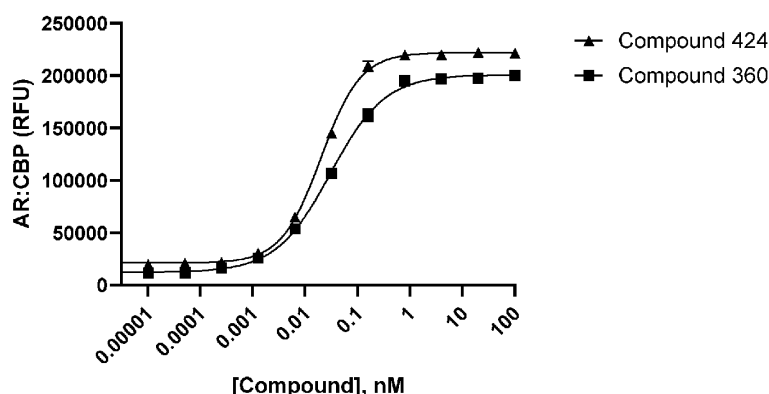
(74) Agent: **PARENTI, Kaia** et al.; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, California 94304 (US).

(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, 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,

(54) Title: BIFUNCTIONAL ANDROGEN RECEPTOR COMPOUNDS

FIG. 4



(57) Abstract: Described herein are heterobifunctional small molecules, methods of making, pharmaceutical compositions and medicaments comprising such heterobifunctional small molecules, and methods of using such heterobifunctional small molecules are described herein, in the treatment of diseases and conditions, such as cancer, autoimmune diseases, and inflammatory diseases.

[Continued on next page]

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 applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*