

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 January 2025 (16.01.2025)



(10) International Publication Number
WO 2025/012376 A1

(51) International Patent Classification:

C07C 323/12 (2006.01) C12N 15/88 (2006.01)
A61P 35/00 (2006.01)

(21) International Application Number:

PCT/EP2024/069656

(22) International Filing Date:

11 July 2024 (11.07.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23184813.6 11 July 2023 (11.07.2023) EP

(71) Applicant: **ETHERNA IMMUNOTHERAPIES NV**
[BE/BE]; Galileilaan 19, 2845 Niel (BE).

(72) Inventors: **DE COEN, Ruben**; Galileilaan 19, 2845 Niel (BE). **KASMI, Sabah**; Galileilaan 19, 2845 Niel (BE). **DE KOKER, Stefaan**; Galileilaan 19, 2845 Niel (BE). **DUMBRE, Shrinivas**; Galileilaan 19, 2845 Niel (BE).

(74) Agent: **ARNOLD & SIEDSMA**; Bezuidenhoutseweg 57,
2594 AC THE HAGUE (NL).

(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, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: IONIZABLE LIPIDS

(57) Abstract: The present invention generally relates to the field of ionizable (also termed cationic) lipids, and in particular provides a novel type of such lipids as represented by any of the formulae disclosed herein. The present invention further provides methods for making such lipids as well as uses thereof, in particular in the preparation of nanoparticle compositions, more in particular nanoparticle compositions comprising nucleic acids. It further provides vaccine formulations and pharmaceutical formulations comprising nanoparticle compositions based on the ionizable lipids disclosed herein.



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