



(51) International Patent Classification:

C07K 16/28 (2006.01) A61K 39/00 (2006.01)

C12N 9/14 (2006.01)

(21) International Application Number:

PCT/EP2018/077217

(22) International Filing Date:

05 October 2018 (05.10.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/568,812 06 October 2017 (06.10.2017) US

62/686,143 18 June 2018 (18.06.2018) US

(71) Applicant: INNATE PHARMA [FR/FR]; 117 Avenue de Luminy, 13009 Marseille (FR).

(72) Inventors: CHANTEUX, Stéphanie; 430 Avenue Jean de Lattre de Tassigny Résidence Valmont Redon, Bt les Lauriers, 13009 MARSEILLE (FR). GOURDIN, Nicolas; 51 Traverse Pourrière Résidence Les Alizés, Bt A, Appt A13, 13008 Marseille (FR). PATUREL, Carine; 411 Allée du Bois, 69280 Marcy l'Etoile (FR). PERROT, Ivan; Impasse des Brayes Résidence les Brayes, bâtiment la Chaconne, 13260 Cassis (FR). ROSSI, Benjamin; 70 Avenue d'Haifa Résidence la Palmeraie, Bt C, 13008 MARSEILLE (FR).

(74) Agent: VOLLMY, Lukas; INNATE PHARMA 117 Avenue de Luminy, 13009 MARSEILLE (FR).

(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):

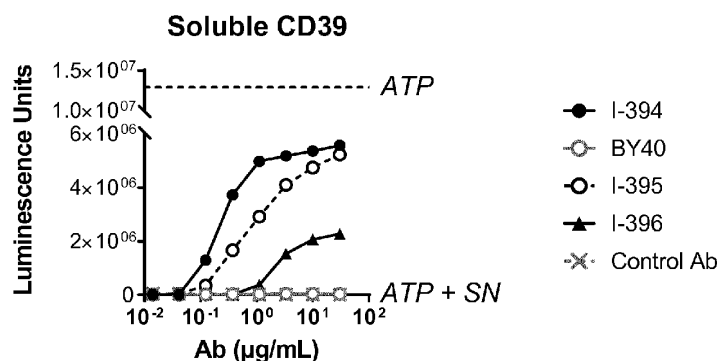
ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: RESTORATION OF T CELL ACTIVITY VIA THE CD39/CD73 AXIS

Figure 2B



(57) Abstract: The present invention relates to methods of using compounds that inhibit the enzymatic activity of soluble human CD39 to treat cancer, including but not limited to the treatment of cancers characterized by CD73 expressing cells.