

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 November 2020 (19.11.2020)



(10) International Publication Number
WO 2020/231808 A1

(51) International Patent Classification:

C07D 403/12 (2006.01) A61K 31/506 (2006.01)
C07D 403/14 (2006.01) A61K 31/4439 (2006.01)
A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2020/032090

(22) International Filing Date:

08 May 2020 (08.05.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/846,260	10 May 2019 (10.05.2019)	US
62/846,264	10 May 2019 (10.05.2019)	US
62/911,733	07 October 2019 (07.10.2019)	US
62/911,736	07 October 2019 (07.10.2019)	US

(71) Applicant: **DECIPHERA PHARMACEUTICALS, LLC** [US/US]; 200 Smith Street, Waltham, MA 02451 (US).

(72) Inventors: **FLYNN, Daniel, L.**; 4165 Blackjack Oak Drive, Lawrence, KS 66047 (US). **AHN, Yu Mi**; 200 Smith Street, Waltham, MA 02451 (US). **CALDWELL, Timothy**; 200 Smith Street, Waltham, MA 02451 (US). **VOGETI, Lakshminarayana**; 200 Smith Street, Waltham, MA 02451 (US).

(74) Agent: **KAVANAUGH, Theresa, C.** et al.; Goodwin Procter LLP, 100 Northern Avenue, IP Docketing Dept./7th Fl, Boston, MA 02210 (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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

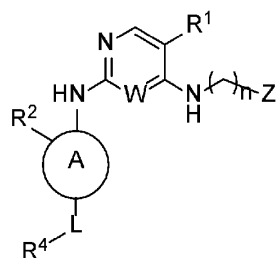
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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: HETEROARYLAMINOPYRIMIDINE AMIDE AUTOPHAGY INHIBITORS AND METHODS OF USE THEREOF

(57) Abstract: Described herein are compounds that are inhibitors of autophagy and their use in the treatment of disorders such as cancers. (I)



Formula I

WO 2020/231808 A1