



## (51) International Patent Classification:

C07D 487/04 (2006.01) A61P 35/00 (2006.01)  
A61K 31/4985 (2006.01) A61P 3/10 (2006.01)  
A61P 25/00 (2006.01)

## (21) International Application Number:

PCT/US2013/062039

## (22) International Filing Date:

26 September 2013 (26.09.2013)

## (25) Filing Language:

English

## (26) Publication Language:

English

## (30) Priority Data:

|            |                                |    |
|------------|--------------------------------|----|
| 61/706,037 | 26 September 2012 (26.09.2012) | US |
| 61/783,965 | 14 March 2013 (14.03.2013)     | US |
| 61/831,088 | 4 June 2013 (04.06.2013)       | US |

(71) Applicants: **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, Twelfth Floor, Oakland, California 94607-5200 (US). **UNIVERSITY OF WASHINGTON THROUGH ITS CENTER FOR COMMERCIALIZATION** [US/US]; 4311 11th Avenue NE, Suite 500, Seattle, Washington 98105 (US).

(72) Inventors: **BACKES, Bradley J.**; 152 Liberty Street, San Francisco, California 94110 (US). **MALY, Dustin J.**; 7537

18th Ave NW, Seattle, Washington 98117 (US). **OAKES, Scott A.**; 1966 Grove St, San Francisco, California 94117 (US). **PAPA, Feroz R.**; 437 Mississippi Street, San Francisco, California 94107 (US). **PERERA, Gayani**; 7/6, 6th Lane, Pagoda Road, Negegoda 10250 (LK). **WANG, Likun**; 525 Nelson Rising Lane, Apt. 417A, San Francisco, California 94158 (US).

(74) Agents: **NOMURA, Anson M.** et al.; Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, 8th Floor, San Francisco, California 94111 (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SZ, TZ,

[Continued on next page]

(54) Title: MODULATION OF IRE1

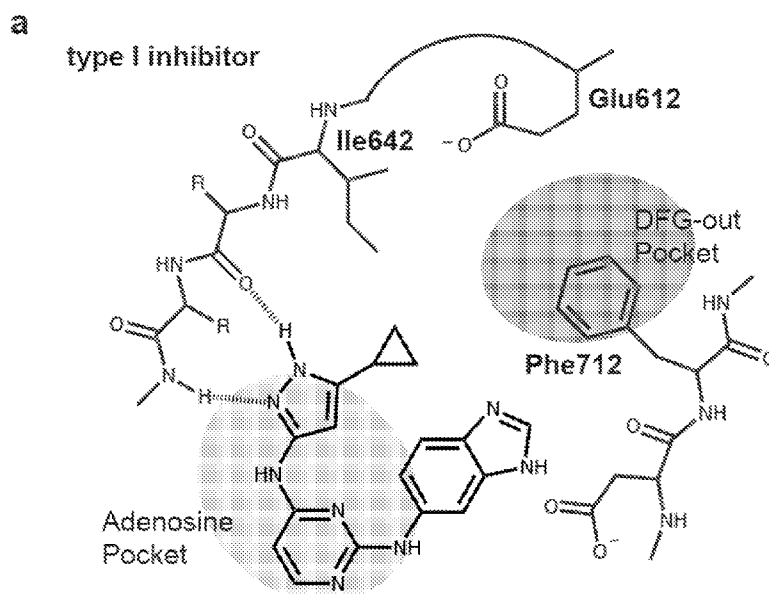


FIG. 1

(57) Abstract: Described herein, *inter alia*, are compositions and methods of using the same for modulating the activity of Ire1.



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))*
- *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))*