



(51) International Patent Classification:
A61K 31/4985 (2006.01)

(21) International Application Number:
PCT/US2013/036114

(22) International Filing Date:
11 April 2013 (11.04.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/623,003 11 April 2012 (11.04.2012) US
61/646,842 14 May 2012 (14.05.2012) US
61/693,061 24 August 2012 (24.08.2012) US
61/735,809 11 December 2012 (11.12.2012) US

(71) Applicant: **CYTOKINETICS, INC** [US/US]; 280 E. Grand Ave, South San Francisco, CA 94080 (US).

(72) Inventors; and

(71) Applicants : **MALIK, Frady** [US/US]; 280 E. Grand Ave, South San Francisco, CA 94080 (US). **JASPER, Jeffrey, R.** [US/US]; 280 E. Grand Ave, South San Francisco, CA 94080 (US). **KENNEDY, Adam** [US/US]; 280 E. Grand Ave, South San Francisco, CA 94080 (US). **HWEE, Darren** [US/US]; 280 E. Grand Ave, South San Francisco, CA 94080 (US).

(74) Agent: **STEVENS, Lauren, L.**; Global Patent Group, LLC, 1005 N. Warson Road, Suite 201, St. Louis, MO 63132 (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, KM, 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, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: METHODS FOR IMPROVING RESISTANCE TO SKELETAL MUSCLE FATIGUE

(57) Abstract: Provided are compounds, compositions and methods for improving resistance to skeletal muscle fatigue comprising administering an effective amount of a skeletal muscle troponin activator. Also provided are methods for improving resistance to fatigue, improving physical endurance, or reducing exercise intolerance in a subject suffering from a condition associated with muscle fatigue or weakness, such as heart failure.

