

(51) International Patent Classification:
A61K 31/195 (2006.01)

(21) International Application Number:

PCT/US2012/046814

(22) International Filing Date:

13 July 2012 (13.07.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/508,139	15 July 2011 (15.07.2011)	US
61/636,608	20 April 2012 (20.04.2012)	US
61/636,603	20 April 2012 (20.04.2012)	US
61/636,610	20 April 2012 (20.04.2012)	US
61/636,598	20 April 2012 (20.04.2012)	US
61/636,605	20 April 2012 (20.04.2012)	US
61/636,597	20 April 2012 (20.04.2012)	US

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(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, 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, 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:

- 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))

(54) Title: COMPOSITIONS AND METHODS FOR MODULATING METABOLIC PATHWAYS

(57) Abstract: Compositions and methods useful for inducing an increase in fatty acid oxidation or mitochondrial biogenesis, reducing weight gain, inducing weight loss, or increasing Sirt 1, Sirt3, or AMPK activity are provided herein. Such compositions can contain synergizing amounts of a sirtuin-pathway activators, including but not limited to resveratrol, in combination with beta-hydroxymethylbutyrate (HMB), keto isocaproic acid (KIC), leucine, or combinations of HMB, KIC and leucine.



WO 2013/012760 A1