

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 February 2006 (09.02.2006)

PCT

(10) International Publication Number
WO 2006/012667 A1

- (51) International Patent Classification⁷: **A61K 7/021**, 7/42, 38/22
- (21) International Application Number:
PCT/AU2005/000181
- (22) International Filing Date:
11 February 2005 (11.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/599,143 4 August 2004 (04.08.2004) US
- (71) Applicant (for all designated States except US): **EPITAN LIMITED** [AU/AU]; Level 13, 1 Collins Street, Melbourne, Victoria 3000 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KLEINIG, Michael, John** [AU/AU]; 15 Sutherland Street, Brunswick, Victoria 3056 (AU). **TICE, Thomas, R.** [US/US]; 5317 Mountain Park Circle, Indian Springs, Alabama 35124 (US). **STAAS, Jay, K.** [US/US]; 2141 N. Grande View Lane, Maylene, Alabama 35114 (US).
- (74) Agents: **SLATTERY, John, M** et al.; Davies Collison Cave, 1 Nicholson Street, Melbourne, Victoria 3000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF INDUCING MELANOGENESIS IN A SUBJECT.

(57) Abstract: Described herein are methods and compositions for inducing melanogenesis in a human subject. The method comprises administering to a subject an alpha-MSH analogue, in an effective amount and time to induce melanogenesis by the melanocytes in epidermal tissue of subject without inducing homologous desensitization of the melanocortin-1 receptors.

WO 2006/012667 A1