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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :
A61K 31/40, C07D 487/22

A1

(11) International Publication Number: WO 00/33833

(43) International Publication Date: 15 June 2000 (15.06.00)

(21) International Application Number: PCT/IL99/00673

(22) International Filing Date: 9 December 1999 (09.12.99)

(30) Priority Data:
98403110.4 9 December 1998 (09.12.98) EP

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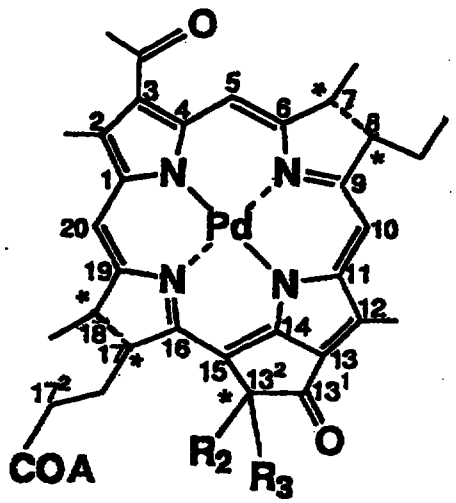
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: PALLADIUM-SUBSTITUTED BACTERIOCHLOROPHYLL DERIVATIVES AND USE THEREOF

(57) Abstract

Palladium-substituted Bacteriochlorophyll derivatives of formula (I), wherein A represents OH, OR_1, $-O-(CH_2)_n-Y$, $-S-(CH_2)_n-Y$, $-NH-(CH_2)_n-Y$, $-O-(CH_2)_2-NH_2$, $-O-(CH_2)_2-OH$, $-NH-(CH_2)_n-{}^+N$ o, X^-, $-NH-(CH_2)_2-NH=BOC$ or $-N-(CH_2-CH=CH_2)_2$; wherein R_1 represents Na^+, K^+, $(Ca^{2+})_{0.5}$, $(Mg^{2+})_{0.5}$, Li^+, NH_4^+, $^+NH_3-C(CH_2OH)_3$, $^+NH_3-CH_2-(CHOH)_4-CH_2OH$, $^+NH_2(CH_3)-CH_2-(CHOH)_4-CH_2OH$ or $^+N(C_{n'}H_{2n'+1})_4$; R_2 represents H, OH or $COOR_4$, wherein R_4 is C_1-C_{12} alkyl or C_3-C_{12} cycloalkyl; R_3 represents H, OH or C_1-C_{12} alkyl or alkoxy; n is 1, 2, 3, 4, 5 or 6, Y is $-NR'_1R'_2$ or $-{}^+NR'_1R'_2R'_3$, X^- wherein R'_1, R'_2 and R'_3 independently from each other represent $-CH_3$ or $-C_2H_5$; X is F, Cl, Br or I, n' is 1, 2, 3 or 4 and their oxidized forms, are useful in the field of photodynamic therapy (PDT).



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