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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 281/16, A61K 31/155	A1	(11) International Publication Number: WO 97/23447 (43) International Publication Date: 3 July 1997 (03.07.97)								
(21) International Application Number: PCT/US96/20810 ✓ (22) International Filing Date: 26 December 1996 (26.12.96) ✓ (30) Priority Data: ✓ <table border="0"> <tr> <td>60/009,220 ✓</td> <td>26 December 1995 (26.12.95) ✓</td> <td>US</td> </tr> <tr> <td>08/618,407 ✓</td> <td>19 March 1996 (19.03.96) ✓</td> <td>US</td> </tr> <tr> <td>08/771,959 ✓</td> <td>23 December 1996 (23.12.96) ✓</td> <td>US</td> </tr> </table> (71) Applicant: ALTEON INC. [US/US]; 170 Williams Drive, Ramsey, NJ 07446 (US). ✓ (72) Inventors: ULRICH, Peter, C.; 148 DeWolf Road, Old Tappan, NJ 07675 (US). WAGLE, Dillip, R.; 731 Route 9W, Cottage No. 4, Valley Cottage, NY 10989 (US). ✓ (74) Agents: RENDA, Barbara, L. et al.; Klauber & Jackson, 411 Hackensack Avenue, Hackensack, NJ 07601 (US). ✓	60/009,220 ✓	26 December 1995 (26.12.95) ✓	US	08/618,407 ✓	19 March 1996 (19.03.96) ✓	US	08/771,959 ✓	23 December 1996 (23.12.96) ✓	US	(81) Designated States: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG ✓, SI, SK, TR, TT, UA, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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.
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(54) Title: N-ACYLAMINOALKYLHYDRAZINECARBOXIMIDAMIDES ✓ (57) Abstract The present invention relates to compositions and methods for inhibiting nonenzymatic cross-linking (protein aging) using compounds of formula (I), wherein alk is a straight or branched chain alkylene group containing from 2 to 8 carbon atoms, and R is a lower alkyl group containing from 1 to 6 carbon atoms; and their biologically or pharmaceutically acceptable acid addition salts. Accordingly, a composition is disclosed which comprises these N-acylaminoalkylhydrazinecarboximidamides, which are capable of inhibiting the formation of advanced glycosylation endproducts of target proteins. The method comprises contacting the target protein with the composition. Both industrial and therapeutic applications for the invention are envisioned, as food spoilage and animal protein aging can be treated. $\begin{array}{ccccccc} & \text{H} & & \text{H} & & \text{H} & \\ & & & & & & \\ \text{H}_2\text{N}-\text{N}-\text{C}-\text{N}-\text{alk}-\text{N}-\text{C}-\text{R} & & & & & & \text{(I)} \\ & & & & & & \\ & \text{NH} & & & & \text{O} & \end{array}$										