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| <b>(51) International Patent Classification <sup>6</sup>:</b><br><b>C12N 9/64, 15/00, 15/57, 15/70, 15/79</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 99/63070</b><br><b>(43) International Publication Date:</b> 9 December 1999 (09.12.99)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>(21) International Application Number:</b> PCT/US99/11969<br><b>(22) International Filing Date:</b> 1 June 1999 (01.06.99)<br><b>(30) Priority Data:</b><br>60/087,585      1 June 1998 (01.06.98)      US<br><b>(71) Applicant (for all designated States except US):</b> ELI LILLY AND COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> HUANG, Lihua [CN/US]; 12138 Penneagle Drive, Carmel, IN 46033 (US). RIGGIN, Ralph, Meridith [US/US]; 708 Suffolk Lane, Carmel, IN 46032 (US).<br><b>(74) Agents:</b> BARRETT, Brian, P. et al.; Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285 (US). |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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).<br><br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> HUMAN PROTEIN C POLYPEPTIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>(57) Abstract</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>An isolated human protein C polypeptide with a truncated heavy chain is described. This isolated polypeptide retains the biological activity of the wild-type human protein C. This polypeptide will be useful in the treatment of vascular occlusive disorders, hypercoagulable states, thrombotic disorders and disease states predisposing to thrombosis.</p>                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |