RTMP copy + IPER + Annexes + Replacement sheet

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C12P 21/00, C07K 14/415, A61K 38/16, 7/48 — A1

(11) International Publication Number: WO 96/20284

(43) International Publication Date: 4 July 1996 (04.07.96)

(21) International Application Number: PCT/EP95/05084

(22) International Filing Date: 21 December 1995 (21.12.95)

(30) Priority Data:
MI94A002663 28 December 1994 (28.12.94) IT

(71) Applicant *(for all designated States except US)*: INDENA S.P.A. [IT/IT]; Viale Ortles, 12, I-20139 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: BOMBARDELLI, Ezio [IT/IT]; Viale Ortles, 12, I-20139 Milano (IT). PONZONE, Cesare [IT/IT]; Viale Ortles, 12, I-20139 Milano (IT).

(74) Agent: MINOJA, Fabrizio; Studio Consulenza Brevettuale, Via Rossini, 8, I-20122 Milano (IT).

(81) Designated States: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, LS, MW, SD, SZ, UG).

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: HYDROXYPROLINE-RICH PROTEINS AND PHARMACEUTICAL AND COSMETIC FORMULATIONS CONTAINING THEM

(57) Abstract

The invention relates to hydroxyproline-rich glycoproteins, which can be obtained by acid alcohol extraction from *Taxus spp.*, *Gingko biloba*, *Lycopersicum esculentum* and *Daucus carota* cell cultures, having the following characteristics: average molecular weight 20,000 Daltons with variability interval 12,000 to 38,000, determined by means of gel permeation and electrophoresis; high solubility in water.