

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
17 August 2006 (17.08.2006)

PCT

(10) International Publication Number
WO 2006/085747 A1

(51) International Patent Classification:

A61K 9/113 (2006.01) A61K 38/21 (2006.01)
A61K 9/16 (2006.01) A61P 31/12 (2006.01)
A61K 9/19 (2006.01) A61P 31/18 (2006.01)
A61K 47/34 (2006.01)

(21) International Application Number:

PCT/NL2006/000006

(22) International Filing Date: 6 January 2006 (06.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

05075043.9 7 January 2005 (07.01.2005) EP

(71) Applicant (for all designated States except US): **OC-TOPLUS SCIENCES B.V.** [NL/NL]; Zernikedreef 12, NL-2333 CL Leiden (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BECHET, Anne, Chantal** [FR/NL]; Soesterweg 33, NL-3812 AB Amersfoort (NL). **VAN DIJKHUIZEN-RADERSMA, Riemke** [NL/NL]; De Genestetlaan 18, NL-3705 BV Zeist (NL). **STIGTER, Martin** [NL/NL]; Tolsteegplantsoen 45 Ii, NL-3523 AN Utrecht (NL). **BEZEMER, Jeroen, Mattijs** [NL/NL]; Willem Van Abcoudeplein 7, NL-3515 BW Utrecht (NL).

(74) Agent: **WINCKELS, J.H.F.**; C/o Vereenigde, Johan De Wittlaan 7, NL-2517 JR The Hague (NL).

(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, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, 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, LV, 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: CONTROLLED RELEASE COMPOSITIONS FOR INTERFERON BASED ON PEGT/PBT BLOCK COPOLYMERS

(57) Abstract: The invention discloses a pharmaceutical composition for the controlled release of relatively toxic active compounds, in particular for bioactive proteins from the class of interferons. The composition comprises a biodegradable block copolymer constructed from poly(ethylene glycol) terephthalate (PEGT) and poly(butylene terephthalate) (PBT). The composition is provided in the form of injectable microparticles, of an in-injectable liquid which may have self-gelling properties, or of a solid implant. The invention further provides a pharmaceutical kit comprising the composition, methods for pre-paring the composition, and the pharmaceutical uses relating thereto.

WO 2006/085747 A1