(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/064787 A2

(51) International Patent Classification[7]: A61K

(21) International Application Number:
PCT/US2004/000948

(22) International Filing Date: 14 January 2004 (14.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/439,918 14 January 2003 (14.01.2003) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/439,918 (CIP)
Filed on 14 January 2003 (14.01.2003)

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(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, 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, 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, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that 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: PARENTERAL FORMULATIONS OF PEPTIDES FOR THE TREATMENT OF SYSTEMIC LUPUS ERYTHEMATOSUS

(57) Abstract: The subject invention provides a pharmaceutical composition comprising: an, aqueous carrier; from 0.1 mg/ml to 20 mg/ml of the composition of a pharmaceutically acceptable salt of a) peptide comprising at least 12 and at most 30 consecutive amino acids having a sequence corresponding to (i) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a human monoclonal anti-DNA 16/6 Id antibody, or (ii) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a pathogenic anti-DNA monoclonal antibody that induces a systemic lupus erythematosus (SLE)-like disease response in mice, or b) a peptide comprising consecutive amino acids having the sequence shown by any of SEQ ID NOS. 8-17, or c) a peptide comprising consecutive amino acids having a sequence of any of and b), or at least two of the sequences in (a)(1), (a) (ii) and (b)(i) through (b)(x), or d) a peptide comprising consecutive amino acids having a sequence comprising at least two identical sequences included in (a) (i), (a) (ii) and (b) (i) through (b)(x); and a solubility enhancer, wherein both the peptide and the solubility enhancer are dissolved in the aqueous carrier; and wherein the composition has a pH between 4 and 9, and a method of alleviating symptoms of SLE in a human by administering an effective amount of the composition.

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