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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 January 2007 (11.01.2007)

PCT

(10) International Publication Number
WO 2007/005358 A3

(51) International Patent Classification:
C07K 14/47 (2006.01) *A61K 39/095* (2006.01)
A61K 47/48 (2006.01) *A61K 39/385* (2006.01)

(21) International Application Number:
PCT/US2006/024742

(22) International Filing Date: 26 June 2006 (26.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/695,528 30 June 2005 (30.06.2005) US

(71) Applicant *(for all designated States except US)*: **MERCK & CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **GRIMM, Karen, M.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **JOYCE, Joseph, G** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **LIANG, Xiaoping** [CA/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **NAWROCKI, Denise** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(74) Common Representative: **MERCK & CO., INC.**; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(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, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, 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, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
5 April 2007

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: METHOD FOR PREPARING A COVALENTLY CROSS LINKED OLIGOMER OF AMYLOID BETA PEPTIDES

(57) Abstract: The invention relates to a method for the preparation of a stabilized cross-linked oligomer of amyloid beta using a near-zero length bifunctional cross-linking agent for use as an immunogen for the generation of antibodies for the treatment of Alzheimer's Disease and other conditions related to abnormal amyloid beta aggregation. A preferred bifunctional cross-linking agent is 1,5-difluoro-2,4-dinitrobenzene (DFDNB).

WO 2007/005358 A3