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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 February 2003 (27.02.2003)

PCT

(10) International Publication Number
WO 03/015826 A1

(51) International Patent Classification[7]: A61K 47/48, A61P 35/04

(21) International Application Number: PCT/JP02/08309

(22) International Filing Date: 16 August 2002 (16.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2001-249717 21 August 2001 (21.08.2001) JP

(71) Applicant: **TANABE SEIYAKU CO., LTD.** [JP/JP]; 2-10, Dosho-machi 3-chome, Chuo-ku, Osaka-shi, Osaka 541-8505 (JP).

(72) Inventors: **KAWAGUCHI, Takayuki**; 24-5-2005, Kitaotsuka 2-chome, Toshima-ku, Tokyo 170-0004 (JP). **OKUNO, Satoshi**; 8-5-18, Waseda, Misato-shi, Saitama 341-0018 (JP). **YANO, Toshiro**; 1-5-302, Fujishirodai 1-chome, Suita-shi, Osaka 565-0873 (JP).

(74) Agents: **AOYAMA, Tamotsu** et al.; Aoyama & Partners, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (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.

WO 03/015826 A1

(54) Title: PHARMACEUTICAL COMPOSITIONS COMPRISING POLYSACCHARIDE CONJUGATES FOR INHIBITING THE METASTSIS OR PREVENTING THE RECURRENCE OFMALIGANT TUMOR

(57) Abstract: A pharmaceutical composition for inhibiting the metastasis or preventing the recurrence of a malignant tumor, which comprises as the active ingredient a polysaccharide derivative comprising a polysaccharide having a carboxyl group bound to an active substance having an anti-tumor activity via an amino acid or a peptide consisting of 2 to 8 amino acids which are the same or different, or a salt thereof. Preferred active substances are camptothecin derivatives.