

06/05/03
2003026341

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 August 2002 (01.08.2002)

PCT

(10) International Publication Number
WO 02/058622 A3

(51) International Patent Classification⁷: **A61K 9/48**,
9/127, 9/133, C07F 7/02

(21) International Application Number: PCT/US01/43325

(22) International Filing Date:
9 November 2001 (09.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/247,306 9 November 2000 (09.11.2000) US

(71) Applicant (for all designated States except US):
NEOPHARM, INC. [US/US]; Suite 195, 150 Field
Drive, Lake Forest, IL 60045 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AHMAD, Imran**
[US/US]; 10521 Alloway Drive, Potomac, MD 20854
(US). **ZHANG, Jia-Ai (Allen)** [US/US]; 350 East Pine
Lakes Circle, Vernon Hills, IL 60061 (US). **RAHMAN,**
Aquilur [—/—]; Apt. 201, 9810 Mahogany Drive, Po-
tomac, MD 20854 (US).

(74) Agents: **GOULD, Robert, M.** et al.; Leydig, Voit &
Mayer, Ltd., Two Prudential Plaza, Suite 4900, 180 North
Stetson, Chicago, IL 60601-6780 (US).

(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, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (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:
28 August 2003

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.



162162



ACTION

(54) Title: SN-38 LIPID COMPLEXES AND METHODS OF USE

(57) Abstract: The present invention is for novel compositions and methods for treating diseases caused by cellular proliferation, particularly, for treating cancer in mammals and more particularly in humans. The therapeutic compositions of the present invention include SN-38 lipid complexes in which the complexes can contain any of a variety of neutral or charged lipids and, desirably, cardiolipin. The compositions are capable of efficiently incorporating SN-38 into complexes and are capable of solubilizing relatively high concentrations of SN-38.

WO 02/058622 A3