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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 November 2005 (24.11.2005)

PCT

(10) International Publication Number
WO 2005/110059 A3

(51) International Patent Classification:
A61K 38/17 (2006.01) *A01N 37/18* (2006.01)

(21) International Application Number:
PCT/US2005/009097

(22) International Filing Date: 17 March 2005 (17.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/554681 17 March 2004 (17.03.2004) US

(71) Applicant *(for all designated States except US)*: **CHIRON CORPORATION** [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **CREASY, Abla** [US/US]; c/o Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 (US).

(74) Agents: **PAYNE, Helen, T.** et al.; Chrion Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (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, 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, 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, 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*

(88) Date of publication of the international search report:
9 April 2009

(54) Title: TREATMENT OF SEVERE COMMUNITY-ACQUIRED PNEUMONIA BY ADMISTRATION OF TISSUE FACTOR PATHWAY INHIBITOR (TFPI)

(57) Abstract: Methods for prophylactically or therapeutically treating severe pneumonia involve administration of tissue factor pathway inhibitor (TFPI) or a TFPI analog to patients suffering from or at risk of developing this condition. The methods involve the use of continuous intravenous infusion of TFPI or a TFPI analog, preferably at low doses to avoid adverse side effects.

WO 2005/110059 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/09097

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **A61K 38/17**(2006.01);**A01N 37/18**(2006.01)

USPC: 514/2,12
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 514/2,12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST text search: TFPI same antibiotic, TFPI and pneumonia

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20030139339 A1 (CREASEY) 24 July 2003 (24.07.2003), entire document.	1-42
A	US 20030139340 A1 (CREASEY) 24 July 2003 (24.07.2003), entire document.	1-42
X --- Y	CAMEROTA, A.J., et al. Delayed Treatment with Recombinant Human Tissue Factor Pathway Inhibitor Improves Survival in Rabbits with Gram-Negative Peritonitis .1998 Journal of Infectious Diseases 177: 668-676, entire document, especially p. 669-670.	1-4, 18-32 --- 5-17, 33-42
Y	CREASEY, A.A., et al. Tissue Factor Pathway Inhibitor Reduces Mortality from Escherichia coli Septic Shock 1993 Journal of Clinical Investigation 91: 2850-2860, entire document, especially pages 2851-2853.	1-42
Y	SCHULTZ, M.J., et al. Anticoagulant Therapy for Acute Lung Injury or Pneumonia 2003 Current Drug Targets 4: 315-321, entire document.	1-42

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
19 June 2008 (19.06.2008)

Date of mailing of the international search report
15 JUL 2008

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Authorized officer
Marsha Tsay

Telephone No. 571-272-2938

Form PCT/ISA/210 (second sheet) (April 2007)