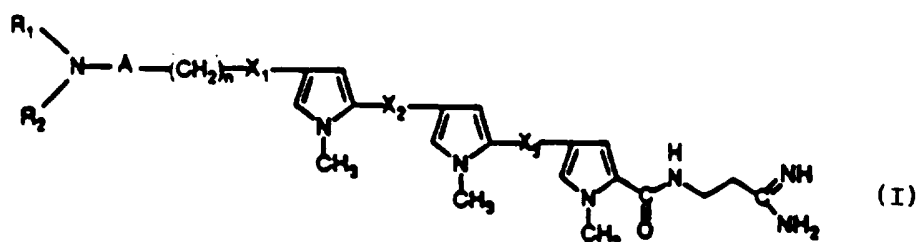




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : C07K 5/02, C07D 207/34, 403/14 A61K 37/02, 31/40	A3	(11) International Publication Number: WO 93/13739 (43) International Publication Date: 22 July 1993 (22.07.93)
(21) International Application Number: PCT/EP93/00002 (22) International Filing Date: 4 January 1993 (04.01.93) (30) Priority data: MI92A000021 10 January 1992 (10.01.92) IT (71) Applicants (for all designated States except US): A. MEN- ARINI INDUSTRIE FARMACEUTICHE RIUNITE S.R.L.[IT/IT]; Via Sette Santi, 3, I-50131 Florence (IT). BRISTOL-MYERS SQUIBB S.P.A. [IT/IT]; Via Paolo di Done, 73, I-00143 Rome (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): ARCAMONE, Federico [IT/IT]; Via IV Novembre, 26, I-20014 Nerviano (IT). LOMBARDI, Paolo [IT/IT]; 16a Strada, 22, I-20020 Ce- sate (IT). ANIMATI, Fabio [IT/IT]; Via di Monteverde, 25, I-00152 Rome (IT).		(74) Agent: GERVASI, Gemma; Notarbartolo & Gervasi s.r.l., Viale Bianca Maria, 33, I-20122 Milano (IT). (81) Designated States: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> (88) Date of publication of the international search report: 25 November 1993 (25.11.93)

(54) Title: RETROREVERSE PYRROLE-AMIDINO OLIGOPEPTIDE ANTICANCER AGENT ANALOGUES, PREPARATION OF SAME, AND PHARMACEUTICAL COMPOSITIONS CONTAINING SUCH ANALOGUES

**(57) Abstract**

A description is given of compounds as per general formula (I), and of pharmaceutically acceptable salts thereof, active as anticancer and antiviral agents.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 93/00002

A. CLASSIFICATION OF SUBJECT MATTER

IPC5: C07K 5/02, C07D 207/34, C07D 403/14, A61K 37/02, A61K 31/40
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)

IPC5: A61K, C07C, C07K

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)

MEDLINE, WPI, CHEMICAL ABSTRACTS, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE, A1, 3623853 (FARMITALIA CARLO ERBA S.P.A.), 29 January 1987 (29.01.87) --	1-3,23-26
X	DE, A1, 3623880 (FARMITALIA CARLO ERBA S.P.A.), 29 January 1987 (29.01.87) --	1-3,11,23-26
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

27 May 1993

Date of mailing of the international search report

20 -10- 1993

Name and mailing address of the ISA/
European Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 93/00002

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP, A1, 0246868 (FARMITALIA CARLO ERBA S.P.A.), 25 November 1987 (25.11.87) --	1-3,23-26
X	Dialog Information Services, file 155, Medline, Dialog accession no. 07972172, Medline accession no.92110172, Pezzoni G. et al: "Biological profile of FCE 24517, a novel benzoyl mustard analogue of distamycin A", Br J Cancer Dec 1991, 64 (6) p1047-50 -- -----	1-3,23-26

NON UNITY OF THE INVENTION

The subjects of invention as listed below are so different from each other, that no technical relationship can be appreciated to be present so as to form a single general inventive concept:

1. Claims 1-3, 11, 12 and 23-26: relate to retroreverse pyrrole-amidino oligopeptides, processes for preparing them, their use for the preparation of pharmaceutical compositions, and pharmaceutical compositions containing the oligopeptides.
2. Claims 4, 5, 7-9, 13-15 and 17-20 relate to pyrrole compounds (intermediates) and processes for preparing them.
3. Claims 6, 10, 16, 21 and 22: relate to amidino compounds (intermediates) and processes for preparing them.

Accordingly, no search was performed for claims 4-10 and 13-22.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/210

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reason:

Claims 27,28 because they relate to subject matter not required to be searched by this Authority, namely:

See PCT Rule 39.1(iv): Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods.

INTERNATIONAL SEARCH REPORT
Information on patent family members

30/04/93

International application No.

PCT/EP 93/00002

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