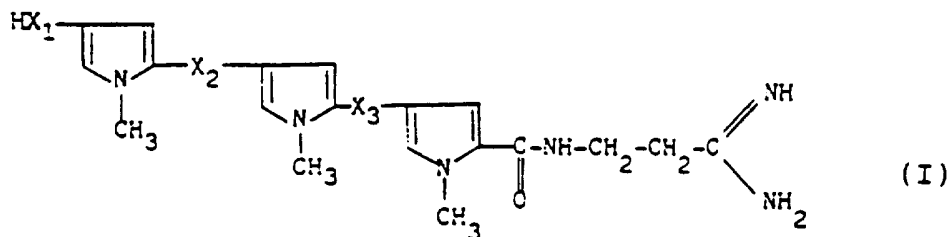




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁵ : C07D 207/34, 207/42 A61K 31/40</p>	<p>A3</p>	<p>(11) International Publication Number: WO 92/09574 (43) International Publication Date: 11 June 1992 (11.06.92)</p>
<p>(21) International Application Number: PCT/EP91/02220 (22) International Filing Date: 20 November 1991 (20.11.91) (30) Priority data: 22154 A/90 22 November 1990 (22.11.90) 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 Dono, 73, I-00143 Rome (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): ANIMATI, Fabio [IT/IT]; Via di Monteverde, 25, I-00152 Rome (IT). ARCA-MONE, Federico [IT/IT]; Via 4 Novembre, 26, I-20014 Nerviano (IT). LOMBARDI, Paolo [IT/IT]; 16a Strada, 22, I-20020 Cesate (IT). ROSSI, Cristina [IT/IT]; Via Paolo Buzzi, 6, I-00143 Rome (IT).</p>		<p>(74) Agents: GERVASI, Gemma et al.; Notarbartolo & Gervasi S.r.l., Viale Bianca Maria, 33, I-20122 Milan (IT). (81) Designated States: AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH (European patent), CI (OAPI patent), CM (OAPI patent), CS, DE (European patent), DK (European patent), ES (European patent), FI, FR (European patent), GA (OAPI patent), GB (European patent), GN (OAPI patent), GR (European patent), HU, IT (European patent), JP, KP, KR, LK, LU (European patent), MC, MG, ML (OAPI patent), MN, MR (OAPI patent), MW, NL (European patent), NO, PL, RO, SD, SE (European patent), SN (OAPI patent), SU, TD (OAPI patent), TG (OAPI patent), US. Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 6 August 1992 (06.08.92)</p>

(54) Title: POLY-AMINOPYRROLECARBOXAMIDO DERIVATIVES, PROCESSES FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM



(57) Abstract

The present invention relates to polyaminopyrrolecarboxamido derivatives of general formula (I) and pharmaceutical acceptable salts thereof, wherein X₁, X₂ and X₃, same or different, represent either -CONH- or NHCO- group, the case wherein X₁ = X₂ = X₃ = -CONH- being excluded, to processes for their preparation and to pharmaceutical compositions having antiviral and antitumoral properties containing them.

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III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category ^o	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	<p>Chemical Abstracts, vol. 112, 1990, (Columbus, Ohio, US), K.L. KISSINGER et al.: "Molecular recognition between oligopeptides and nucleic acids: DNA binding specificity of a series of bisnetropsin analogs deduced from footprinting analysis", see page 28, abstract no. 191480v, & CHEM. RES. TOXICOL. 1990, 3(2), 162-8, see compound with RN 126501-80-2</p> <p>-----</p>	1-5,24-27

FURTHER INFORMATION CONTINUED FROM THE SECOND SHEET

V. OBSERVATION WHERE CERTAIN CLAIMS WERE FOUND UNSEARCHABLE ¹

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

1. Claim numbers _____ because they relate to subject matter not required to be searched by this Authority, namely: _____

2. Claim numbers _____ because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: _____

3. Claim numbers _____ because they are dependent claims and are not drafted in accordance with the second and third sentences of PCT Rule 6.4(a).

VI. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING ²

This International Searching Authority found multiple inventions in this international application as follows:

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1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims of the international application
2. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims of the international application for which fees were paid, specifically claims: _____
3. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim numbers: _____
1-8; 24-27
4. As all searchable claims could be searched without effort justifying an additional fee, the International Searching Authority did not invite payment of any additional fee.

Remark on Protest

- The additional search fees were accompanied by applicant's protest.
- No protest accompanied the payment of additional search fees.

**ANNEX TO THE INTERNATIONAL SEARCH REPORT
ON INTERNATIONAL PATENT APPLICATION NO.**

EP 9102220

SA 53263

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 09/06/92. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB-A- 2178036	04-02-87	AT-B- 387013 AU-B- 587841 AU-A- 6020286 BE-A- 905110 CH-A- 674206 DE-A- 3623880 FR-A- 2585018 JP-A- 62077362 NL-A- 8601837 SE-A- 8603098 SU-A- 1544185 SU-A- 1609445 US-A- 4766142	25-11-88 31-08-89 22-01-87 15-01-87 15-05-90 29-01-87 23-01-87 09-04-87 16-02-87 17-01-87 15-02-90 23-11-90 23-08-88
