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(54) Title: COMPOUNDS WITH THE BIOLOGICAL ACTIVITY OF VASOACTIVE INTESTINAL PEPTIDE FOR THE TREATMENT OF PULMONARY AND ARTERIOLAR HYPERTENSION

(57) Abstract: The present invention relates to peptides which are highly biologically and pharmacologically active as therapeutic drug for the treatment of diseases related to hypertension, especially in medical interventions involving dilatation and remodelling of arterial blood vessels, either in the pulmonary or in the systemic circulation. The peptides which can be used according to the invention for the treatment of said diseases comprises at least one specific highly conservative amino acid residue sequence which seem to play an important role in connection with pulmonary and arteriolar hypertension events. It could be shown that the known naturally occurring peptides "vasoactive intestinal peptide (VIP)" and pituitary adenylate cyclase activating polypeptide (PACAP)", having these specific sequences are potent drugs which can be successfully used for treatment of primary pulmonary hypertension (PPH), secondary pulmonary hypertension (SPH), and hypertension of the systemic circulation. Furthermore, the present invention discloses pharmaceutical compositions useful for treatment of PPH, SPH, and hypertension of the systemic circulation within said methods.



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INTERNATIONAL SEARCH REPORT

International Application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/575 A61K38/22 A61P11/00 A61P9/00

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)

IPC 7 C07K A61K

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 practical, search terms used)

WPI Data, PAJ, EPO-Internal, CHEM ABS Data, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 01 34088 A (RUBIN LEO ;BERNSTEIN DAVID (US)) 17 May 2001 (2001-05-17) the whole document	1-21, 27-45
X	----- DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1989 IWANAGA T ET AL: "VASOACTIVE INTESTINAL PEPTIDE VIP PROTECTS AGAINST ACID-INDUCED ACUTE LUNG INJURY IN ISOLATED PERFUSED RAT LUNGS" Database accession no. PREV199191056096 XP002200466 abstract & JAPANESE JOURNAL OF THORACIC DISEASES, vol. 27, no. 7, 1989, pages 789-795, ISSN: 0301-1542 ----- -/--	1-21, 27-45

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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& document member of the same patent family

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ational Application No

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Information on patent family members

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