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(54) Title: TREATMENT OF ATHEROSCLEROTIC DISEASE

(57) Abstract: The invention features a method of inhibiting the progression of intima-media thickening, or reducing the intima-media thickness (IMT) in arteries in a patient in need thereof by administering to the patient a rifamycin in an amount effective to inhibit the progression of intima-media thickening, or reduce the IMT. The invention also features a method for treating or preventing cerebral vascular disease in a patient in need thereof by administering to the patient a rifamycin in an amount effective to treat the cerebral vascular disease in the patient.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/05309

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 31/33; A61K 31/54 (2007.01)

USPC - 514/183; 514/224.5

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(8)- A61K 31/33; A61K 31/54 (2007.01)

USPC - 514/183; 514/224.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
J of Amer Society Nephrology. July 1995, Vol 6

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST (PGPB,USPT,EPAB,JPAB); esp@cenet

Google Patents; Dialog Pro: Derwent Patent Abstracts

Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2004/0176404 A1 (SAYADA), 9 September 2004 (09.09.2004), abstract; para [0003], [0004], [0013], [0014], [0015].	6, 8, 9, 12, 18, 20 1-5, 7, 10, 11, 13-17, 19, 21, 22
Y	US 2005/0255182 A1 (LUNDGREN- AKERLUND) 17 November 2005 (17.11.2005), para [0008], [0078], [0176].	1, 2, 4, 5, 15
Y	US 4,312,866 A (CARUSO et al.) 26 January 1982 (26.01.1982), abstract; col 6, ln 29-50	19
Y	US 2005/0069526 A1 (FINKLESTEIN et al.) 31 March 2005 (31.03.2005), para [0006], [0054], [0060], [0147], [0163].	3, 4, 5
Y	US 5,095,912 A (TOMITA) 17 March 1992 (17.03.1992), abstract; col 1, ln 10-24.	10
Y	US 2005/0142180 A1 (BISGAIER et al.) 30 June 2005 (30.06.2005), para [0004], [0071], [0127].	11



Further documents are listed in the continuation of Box C.



* 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 but published on or after the international filing date

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"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

11 August 2007 (11.08.2007)

Date of mailing of the international search report

27 SEP 2007

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/05309

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

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

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
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. ☒ Claims Nos.: 23-31
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ 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 claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/05309

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,935,940 A (WEISZ) 10 August 1999 (10.08.1999), col 16, ln 13-18.	7, 13, 14, 15, 16, 17
Y	BACHMANN, J. et al. Hyperhomocysteinemia and the Risk of Vascular Disease in Hemodialysis Patients. J of Amer Society Nephrology. July 1995, Vol 6, No 1, pages 121, 122 and 123, ISSN 1046-6673.	7, 13, 14, 15, 16, 17
Y	US 2005/0143386 A1 (MITCHELL et al.) 30 June 2005 (30.06.2005), abstract; para [0008], [0040], [0127], Table 15.	21 and 22