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Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
11 December 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PEPTIDES EFFECTIVE IN THE TREATMENT OF TUMORS AND OTHER CONDITIONS REQUIRING THE REMOVAL OR DESTRUCTION OF CELLS

(57) Abstract: The invention is directed to methods of treating conditions requiring removal or destruction of harmful or unwanted cells in a patient, such as benign and malignant tumors, using compounds containing or based on peptides comprising a part of the amino acid sequence of a neural thread protein.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 02/01757

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/47 C12N15/12 A61K38/17 A61P35/00

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 C12N

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)

EPO-Internal, CHEM ABS Data, Sequence Search, BIOSIS, WPI Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 948 634 A (DE LA MONTE) 7 September 1999 (1999-09-07) cited in the application column 6, line 5 - line 8; figure 16F -----	1-35
A	LASSERRE C ET AL.: "A Novel Gene (HIP) Activated in Human Primary Liver Cancer" CANCER RESEARCH, vol. 52, 15 September 1992 (1992-09-15), pages 5089-5095, XP001056507 the whole document -----	
A	DE REGGI M ET AL.: "The glycan moiety of human pancreatic lithostathine" EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 230, 1995, pages 503-510, XP008018805 the whole document -----	

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in 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 document but 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

25 June 2003

Date of mailing of the international search report

08 OCT 2003

Name and mailing address of the ISA

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Authorized officer

Schmidt, H.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 02/01757

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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:

Although claims 12 to 35 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

see additional sheet

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 an additional fee, this Authority did not invite payment of any additional fee.
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.:

1-35

Remark on Protest

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

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 8, their nucleic acids and
methods

2. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 9, their nucleic acids and
methods

3. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 10, their nucleic acids and
methods

4. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 11, their nucleic acids and
methods

5. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 12, their nucleic acids and
methods

6. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 13, their nucleic acids and
methods

7. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 14, their nucleic acids and
methods

8. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 15, their nucleic acids and
methods

9. claims: 1-35 (all partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

peptides comprising SEQ ID NO. 16, their nucleic acids and
methods

10. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 17, their nucleic acids and
methods

11. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 18, their nucleic acids and
methods

12. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 19, their nucleic acids and
methods

13. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 20, their nucleic acids and
methods

14. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 21, their nucleic acids and
methods

15. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 22, their nucleic acids and
methods

16. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 23, their nucleic acids and
methods

17. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 24, their nucleic acids and
methods

18. claims: 1-35 (all partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

peptides comprising SEQ ID NO. 25, their nucleic acids and
methods

19. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 26, their nucleic acids and
methods

20. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 27, their nucleic acids and
methods

21. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 28, their nucleic acids and
methods

22. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 29, their nucleic acids and
methods

23. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 30, their nucleic acids and
methods

24. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 31, their nucleic acids and
methods

25. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 32, their nucleic acids and
methods

26. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 33, their nucleic acids and
methods

27. claims: 1-35 (all partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

peptides comprising SEQ ID NO. 34, their nucleic acids and
methods

28. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 35, their nucleic acids and
methods

29. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 36, their nucleic acids and
methods

30. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 37, their nucleic acids and
methods

31. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 38, their nucleic acids and
methods

32. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 39, their nucleic acids and
methods

33. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 40, their nucleic acids and
methods

34. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 41, their nucleic acids and
methods

35. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 42, their nucleic acids and
methods

36. claims: 1-35 (all partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

peptides comprising SEQ ID NO. 43, their nucleic acids and
methods

37. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 44, their nucleic acids and
methods

38. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 45, their nucleic acids and
methods

39. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 46, their nucleic acids and
methods

40. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 47, their nucleic acids and
methods

41. claims: 1-35 (all partially)

peptides comprising SEQ ID NO. 48, their nucleic acids and
methods

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 02/01757

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5948634	A	07-09-1999	
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		WO 9615272 A1	23-05-1996
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