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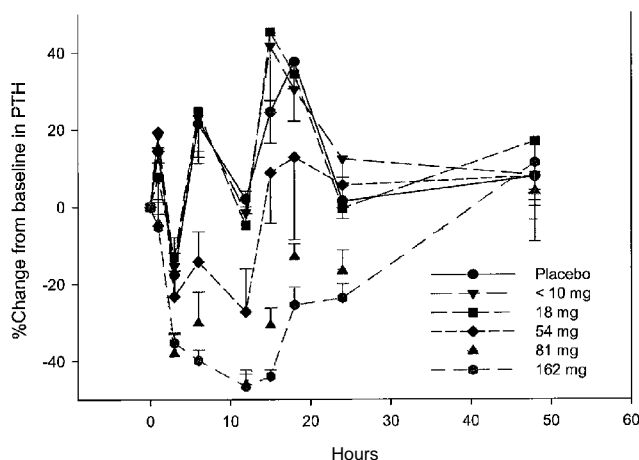
**Published:**

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

[Continued on next page]

(54) Title: POLYCATIONIC CALCIUM MODULATOR PEPTIDES FOR THE TREATMENT OF HYPERPARATHYROIDISM AND HYPERCALCEMIC DISORDERS

### 1455-001 : % Change in PTH by Treatment Groups



(57) Abstract: The present invention provides methods and kits for treating hyperparathyroidism, bone disease and/or hypercalcemic disorders. In particular, methods for lowering serum PTH and serum calcium using polycationic calcium modulator peptides are provided. The calcium modulator peptides can be used to treat subjects having, for example: primary, secondary or tertiary hyperparathyroidism; hypercalcemia of malignancy; metastatic bone disease; or osteoporosis.

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**(88) Date of publication of the international search report:**

18 September 2008

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/85024

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: AOIN 37/18( 2006.01)

USPC: 514/2

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)

U S . 5 14/2

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)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<b>X</b>	US 2003/0036627 A2 (Monteiario et al) 20 February 2003 (20.02.2003) , see paragraph [0007] and SEQ ID NO: 1	15-19
<b>X</b>	JP 2000336099 (YOKOI et al) 5 December 2000 (05.12.2000), see SEQ ID NO: 5	29

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents		"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
"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent published on or after the international filing date	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 07 June 2008 (07.06 2008)	Date of mailing of the international search report <b>07 JUL 2008</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 223 13-1 450 Facsimile No. (571) 273-320 1	Authorized officer /THOMAS S. HEARD/ Telephone No. (571) 272-914 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/85024

**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.: 1-14  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claims 1-14 are drawn to non-statutory "use" claims.
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.: 20-28 and 30  
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 any 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/US07/85024

Continuation of B. FIELDS SEARCHED Item 3:  
EAST: search terms: cationic, peptide, thiol, disulfide, cargo.  
STN sequence CRRR/SQEP for SEQ ID NO: 19