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(54) Title: POLYPEPTIDE DERIVATIVES OF PARATHYROID HORMONE (PTH)

(57) Abstract: The present invention is related to novel parathyroid hormone polypeptide derivatives, and to pharmaceutical composition containing the polypeptides, as well as synthetic and recombinant methods for producing the polypeptides. Also disclosed are methods for treating mammalian conditions characterized by decreases in bone mass using therapeutically effective pharmaceutical compositions containing the polypeptides of the present invention. The present invention further provides diagnostic and therapeutic methods using the polypeptide derivatives.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/17338

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **A61K 39/00( 2006.01),38/00( 2006.01);A01N 1/00( 2006.01);C12P 21/06( 2006.01);C12N 15/00( 2006.01),5/00( 2006.01),C07H 21/04**  
  
 USPC: 424/198.1;435/1.1,69.1,320.1,325;530/300;536/23.5  
 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)  
 U.S. : 424/198.1;435/1.1,69.1,320.1,325;530/300;536/23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Please See Continuation Sheet

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 Sequence searches:Geneseq, UniProt, PIR\_80, Issued Patents, Pending Patents, PGPUB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0124537 A1 (Kostenuik et al.) 9 June 2005 (9.06.2005), SEQ ID NO:182, SEQ ID NO:185, paragraphs 0244-0248, 0253-0259, 0291, 0401	1,3,5,15,16-24,26-32
X	WO 93/06846 (Pang PKT) 15 April 1993 (15.04.93) SEQ ID NO:20, Page 13, 2nd and 3rd paragraph, page 13 last paragraph bridging page 14, 1st paragraph	1,2,4,15,24,30,32
X	Rosol et al. Sequences of the cDNAs encoding canine parathyroid hormone-related protein and parathyroid hormone Gene 1995. 160:241-243, page 241, section a, page 242, section c	1,6,16
X	US 6,756,480 B2 (Kostenuik et al.) 29 June 2004 (29.06.2004) SEQ ID NO:19, column 5, lines 35-40, column 36, line 57 bridging column 37, line 33, column 39, lines 59-63, column 44, lines 33-42,	1,7,11,13,15-24,26-32
X	US 2005/0282749 A1 (Henriksen et al) 22 Dec 2005 (22.12.2005) SEQ ID NO:39, paragraphs 0027-0032, 0034-0035, 0037	1, 8, 15, 24

Further documents are listed in the continuation of Box C.  See patent family annex.

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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	"&"	document member of the same patent family

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International application No.  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,537,965 (Bringhurst et al.) 25 March 2003 (25.03.2003). SEQ ID NO:6, Figure 6A,B, column 4, lines 41-51, 58-67, column 5, lines 7-17, column 5, line 61 bridging column 6 line 8, lines 15-24, column 7, line 41 bridging column 8, line 20, claims 10, lines 35-39, column 13 lines 30-56, column 16, line 66 bridging column 17, line 3, lines 21-25, column 18, lines 62-67, claim 18. line13,lines 44-62	1,9-26, 29-33

**INTERNATIONAL SEARCH REPORT**

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Continuation of B. FIELDS SEARCHED Item 2:  
USPGPUB; USPAT, USOCR, EPO, JPO, Derwent; Medline  
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