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(54) Title: PARATHYROID HORMONE ANALOGUES FOR THE TREATMENT OF OSTEOPOROSIS ✓			
(57) Abstract			
This invention describes analogues of human parathyroid hormone which have increased activities in bone restoration, and increased bioavailabilities. The peptides described are derivatives of hPTH-(1-31) which are cyclized for example, by formation of Lactams between either Glu²² and Lys²⁶ or Lys²⁶ and Asp³⁰. In addition, the natural Lys²⁷ may be substituted by either a Leu or other hydrophobic residues, such as Ile, norleucine, Met, Val, Ala, Trp, or Phe. Typically, these analogues have enhanced abilities to stimulate adenylyl cyclase in rat osteosarcoma cells, and show increased activities in bone restoration, using the ovariectomized rat model. The analogues also show enhanced activities and bioavailabilities, as demonstrated by their hypotensive effects in the rat. An assay which correlates hypotensive activity with osteogenic activity is also described.			