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Mitra

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[54] COVALENTLY ATTACHED COMPLEX OF ALPHA-1-PROTEINASE INHIBITOR WITH A WATER SOLUBLE POLYMER

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[51] **Int. Cl.**[3] **C07G 7/00**

[52] **U.S. Cl.** ..... **525/54.1**; 260/112 B; 260/112 R; 424/101; 514/59; 514/826; 435/174; 435/178; 435/179; 435/180; 435/181

[58] **Field of Search** ..... 260/112 R, 112 B, 112.5 R; 525/54.1; 424/177, 180, 183, 101; 435/174, 177, 178, 179, 180, 181

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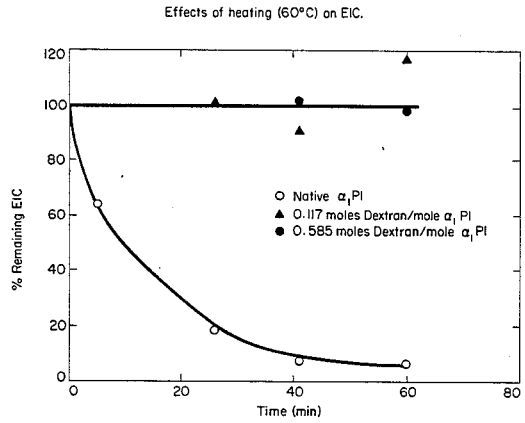
[57] **ABSTRACT**

There is disclosed a process for producing a covalently attached alpha-1-proteinase inhibitor - water soluble polymer complex useful for pulmonary emphysema therapy, a covalently attached alpha-1-proteinase inhibitor - water soluble polymer complex produced by the process, a composition thereof in a pharmaceutically acceptable carrier, and a method for treating pulmonary emphysema by administering to a human patient a therapeutically effective amount of the complex or preparation.

45 Claims, 3 Drawing Figures