



36. Anti-tumor protease preparations
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Method of treating a tumor in a mammal comprises administering to said mammal an effective anti-tumor amount of proteases originating from microorganisms. ; Method of treating a tumor in a mammal comprises administering to said mammal an effective anti-tumor amount of a protease originating from a microorganism which protease is chemically modified by one of the following procedures: ; (a) coupling with a saccharide, ; (b) introduction of a hydrophobic polymeric group, ; (c) alteration of electric charge of the protein surface, ; (d) conjugation with a low molecular weight anti-tumor agent of molecular weight less than 2,000, ; (e) formation of dimer or oligomer by cross-linking of protease molecules, ; (f) conjugation with a synthetic polycation, ; (g) conjugation with a synthetic polyanion, and ; (h) combination of the above-mentioned procedures. ; Microorganism protease is chemically modified by one of the following procedures: ; (a) coupling with a saccharide, ; (b) introduction of a hydrophobic polymeric group, ; (c) alteration of electric charge of the protein surface, ; (d) conjugation with a low molecular weight anti-tumor agent of molecular weight less than 2,000, ; (e) formation of dimer or oligomer by cross-linking of protease molecules, ; (f) conjugation with a synthetic polycation, ; (g) conjugation with a synthetic polyanion, and ; (h) combination of the above-mentioned procedures.

EXEMPLARY CLAIMS- Claim- 1. Method for treating a tumor in a mammal which comprises directly administering into the tumor of said mammal an effective

anti-tumor amount of proteases produced from a source, said source selected from the group consisting of *Serratia marcescens*, *Bacillus* sp. and *Streptomyces griseus*, wherein said protease is other than an acid protease .