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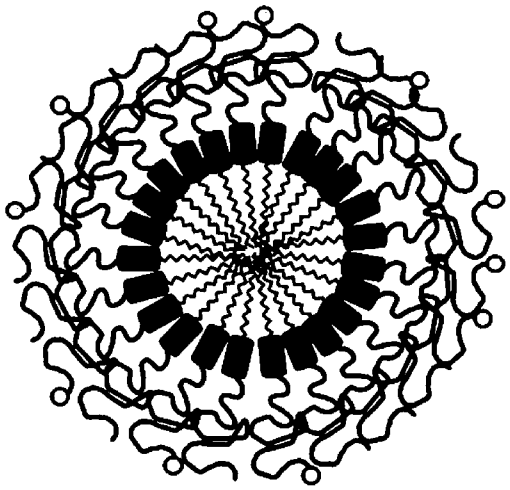
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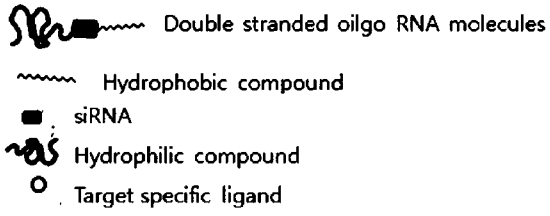
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(54) Title: LIVER CANCER RELATED GENES-SPECIFIC siRNA, DOUBLE-STRANDED OLIGO RNA MOLECULES COMPRISING THE siRNA, AND COMPOSITION FOR PREVENTING OR TREATING CANCER COMPRISING THE SAME





(57) Abstract: There is provided a liver cancer related specific siRNA and high efficiency double-stranded oligo RNA molecules containing the same. The double-stranded oligo RNA molecules have a structure in which hydrophilic and hydrophobic compounds are conjugated to both ends of the double-stranded oligo RNA molecules by a simple covalent bond or a linker-mediated covalent bond in order to be efficiently delivered into cells and may be converted into nanoparticles in an aqueous solution by hydrophobic interactions of the double-stranded oligo RNA molecules. The siRNA contained in the double-stranded oligo RNA molecules may be liver cancer related genes, particularly Gankyrin or BMI-1 specific siRNA. In addition, the present invention relates to a method of preparing the double-stranded oligo RNA molecules, and a pharmaceutical composition for preventing or treating cancer, particularly, liver cancer, containing the double-stranded oligo RNA molecules.

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