

Title (en)

ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS FOR SELECTIVELY KILLING CANCER CELLS

Title (de)

ANTISENSE-OLIGONUKLEOTID ZUSAMMENSTELLUNGEN ZUR GEZIELTEN TÖTUNG VON KREBSZELLEN

Title (fr)

COMPOSITIONS D'OLIGONUCLEOTIDES ANTISENS POUR TUER SELECTIVEMENT LES CELLULES CANCEREUSES

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Application

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Abstract (en)

[origin: CA2272341A1] The present invention relates to methods and compositions for the treatment of cancer using an oligonucleotide and an hydroxyl radical up-regulator. The oligonucleotide is characterized by its ability to down-regulate the path by which the cell repairs oxidative damage to its DNA. Thus, the oligonucleotide renders the tumor cells more susceptible to eradication upon exposure to the hydroxyl radical up-regulator administered substantially concomitantly with or subsequent to administration of the oligonucleotide. This novel treatment, preferentially inhibits the proliferation or kills malignant cells but not normal cells. Preferably, the oligonucleotide is antisense to the gene which encodes protein p53, although other antisense oligonucleotides can also be used. The invention also includes novel conjugates of the oligonucleotide and the hydroxyl up-regulator, as well as new oligonucleotides.

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