

Title (en)

NOVEL 5'-SUBSTITUTED NUCLEOSIDES AND OLIGOMERS PRODUCED THEREFROM

Title (de)

NEUE 5'-SUBSTITUIERTE NUCLEOSIDE UND DARAUS HERGESTELLTE OLIGOMERE

Title (fr)

NOUVEAUX NUCLEOSIDES SUBSTITUES EN POSITION 5' ET OLIGOMERES OBTENUS A PARTIR DE CEUX-CI

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9422890A1] Disclosed are novel 5'-substituted nucleosides and oligonucleotide analog compounds prepared therefrom having from 2 to about 60 bases and having an internucleoside backbone containing one or more 3'-O-PO₂H-O-5'-CR₁R₂- internucleoside linkages instead of the naturally occurring backbone of phosphodiester internucleoside linkages. The present invention also discloses a method of synthesizing oligonucleotide compounds having from 2 to about 60 bases and having an internucleoside backbone containing one or more 3'-O-PO₂H-O-5'-CR₁R₂ internucleoside linkages instead of the naturally occurring backbone of phosphodiester internucleoside linkages, this process comprising preparation of 5'-substituted nucleoside compounds, for example, as illustrated in Figure 1, and utilizing them as synthons in automated DNA synthesizers. Oligonucleotide analogs of the present invention are useful as nuclease resistant, sequence specific antisense compounds.

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