

Title (en)

APPLICATIONS OF FLUORESCENT N-NUCLEOSIDES AND FLUORESCENT STRUCTURAL ANALOGS OF N-NUCLEOSIDES.

Title (de)

ANWENDUNG VON FLUORESZIERENDEN N-NUKLEOSIDEN UND FLUORESZIERENDEN STRUKTURANALOGEN VON N-NUKLEOSIDEN.

Title (fr)

APPLICATIONS DE N-NUCLEOSIDES FLUORESCENTS ET D'ANALOGUES STRUCTURELS FLUORESCENT DE N-NUCLEOSIDES.

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Application

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Abstract (en)

[origin: WO9505391A1] Structural analogs of the six non-fluorescent N-nucleosides commonly found in RNA and DNA, which are inherently fluorescent under physiological conditions, are identified and methods for their preparation provided. Such analogs may be incorporated into DNA and/or RNA oligonucleotides via either enzymatic or chemical synthesis to produce fluorescent oligonucleotides having prescribed sequences. Such analogous sequences may be identical to, or the analogous complement of, template or target DNA or RNA sequences to which the fluorescent oligonucleotides can be hybridized. Methods of preparing either RNA or DNA oligonucleotide probes of the invention, intermediates used in such methods, and methods of using the probes of the invention in oligonucleotide amplification, detection, identification, and/or hybridization assays are also provided.

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