

Title (en)

SYNTHESIS OF STEREOSPECIFIC OLIGONUCLEOTIDE PHOSPHOROTHIOATES

Title (de)

HERSTELLUNG VON STEREOSPEZIFISCHEN PHOSPHOROTHIOATENOLIGONUKLEOTIDEN

Title (fr)

SYNTHESE D'OLIGONUCLEOTIDES DE PHOSPHOROTHIOATES STEREOSPECIFIQUES

Publication

EP 0807171 A1 19971119 (EN)

Application

EP 95943748 A 19951212

Priority

- US 9516086 W 19951212
- US 36263194 A 19941222

Abstract (en)

[origin: WO9619572A1] Disclosed is a method for synthesizing of stereospecific (Rp) phosphorothioate oligonucleotides. In this method, a primer comprising a plurality of deoxyribonucleotides and a ribonucleotide at the 5' terminal or 5' penultimate position, is annealed to a template. The structure is contacted with a mixture of deoxynucleoside alpha -triphosphate Sp diastereomers and a DNA polymerase to form a PS-Rp oligodeoxynucleotide extension which is liberated as a single-stranded PS-Rp oligonucleotide by cleavage after the ribonucleotide in the primer. Also disclosed are PS-Rp oligonucleotides and oligonucleotides prepared according to this method.

IPC 1-7

C12N 15/11; **C07H 21/04**

IPC 8 full level

C12N 15/09 (2006.01); **C12N 15/11** (2006.01); **C12N 15/113** (2010.01); **C12Q 1/68** (2006.01)

CPC (source: EP)

C12N 15/113 (2013.01); **C12N 15/1132** (2013.01); **C12N 2310/315** (2013.01)

Citation (search report)

See references of WO 9619572A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9619572 A1 19960627; AU 4514696 A 19960710; CA 2208528 A1 19960627; CN 1175281 A 19980304; EP 0807171 A1 19971119; JP H10511267 A 19981104

DOCDB simple family (application)

US 9516086 W 19951212; AU 4514696 A 19951212; CA 2208528 A 19951212; CN 95197690 A 19951212; EP 95943748 A 19951212; JP 51985996 A 19951212