

Title (en)

FORMATION OF TRIPLE HELIX COMPLEXES OF DOUBLE STRANDED DNA USING NUCLEOSIDE OLIGOMERS

Publication

EP 0478708 A4 19930609 (EN)

Application

EP 90917768 A 19900614

Priority

US 36802789 A 19890619

Abstract (en)

[origin: WO9015884A1] A specific segment of double stranded DNA may be detected or recognized by formation of a triple helix structure using an oligomer comprised of nucleosidyl units linked by internucleosidyl phosphorus linkages. Function or expression of double stranded DNA segments may be prevented by triple helix formation. Novel oligomers comprising modified nucleosidyl units are useful in triple helix formation, and may be optionally derivatized with DNA modifying groups.

IPC 1-7

C12Q 1/68; **A61K 31/70**; **C07H 21/00**

IPC 8 full level

A61K 31/70 (2006.01); **A61K 31/7088** (2006.01); **A61K 48/00** (2006.01); **A61P 31/12** (2006.01); **A61P 35/00** (2006.01); **C07H 21/00** (2006.01); **C07H 21/04** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)

A61P 31/12 (2017.12); **A61P 35/00** (2017.12); **C07H 21/00** (2013.01); **C12Q 1/6839** (2013.01)

Citation (search report)

- Science ,vol 241, 1988, 456-459, Cooney et al.
- [XD] SCIENCE (WASHINGTON, D. C., 238 (4827), 645-50 1987, MOSER, HEINZ E. ET AL. 'Sequence-specific cleavage of double helical DNA by triple helix formation'
- [XD] JOURNAL OF THE AMERICAN CHEMICAL SOCIETY vol. 111, May 1989, WASHINGTON, DC US pages 3059 - 3061 T. J. POVSIC ET AL. 'Triple helix formation by oligonucleotides on DNA extended to the physiological pH range'
- [A] NUCLEIC ACIDS RESEARCH vol. 15, no. 19, 1987, ARLINGTON, VIRGINIA US pages 7749 - 7759 T. L. DOAN ET AL. 'Sequence specific recognition, photocrosslinking and cleavage of the DNA double helix by an oligo-alpha-thymidilate covalently linked to an azidoproflavine derivative'
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- [A] PROC. NATL. ACAD. SCI. U. S. A., 85(5), 1349-53 1988, PRASEUTH, DANIELE ET AL. 'Sequence-specific binding and photocrosslinking of .alpha. and .beta. oligodeoxynucleotides to the major groove of DNA via'

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9015884 A1 19901227; AU 5846890 A 19910108; AU 651067 B2 19940714; AU 679111 B2 19970619; AU 7584594 A 19941215; CA 2019156 A1 19901219; EP 0478708 A1 19920408; EP 0478708 A4 19930609; IL 94752 A0 19910415; IL 94752 A 19951231; JP H04506152 A 19921029; NZ 234082 A 19970624; TW 221829 B 19940321; ZA 904689 B 19910327

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