

Title (en)

SEQUENCE-SPECIFIC NONPHOTOACTIVATED CROSSLINKING AGENTS WHICH BIND TO THE MAJOR GROOVE OF DUPLEX DNA

Publication

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Application

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Priority

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- US 64065491 A 19910114

Abstract (en)

[origin: WO9118997A1] Agents which bind to the major groove of nucleic acid duplexes in a sequence-specific manner and are capable of forming covalent bonds with one or both strands of the duplex in the absence of light are useful therapeutic agents in the treatment of conditions mediated by duplex DNA. These agents are designed so that the reactivity of the crosslinking agent does not interfere with the sequence specificity of the agent which binds to the major groove. Thus, specific desired DNA duplexes can be targeted and their activity diminished or enhanced.

IPC 1-7

C12P 19/34; **C12Q 1/00**; **C12Q 1/64**; **G01N 33/00**; **G01N 33/564**; **G01N 33/566**

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Citation (search report)

- [X] EP 0375408 A1 19900627 - BAYLOR COLLEGE MEDICINE [US]
- [XP] WO 9015884 A1 19901227 - UNIV JOHNS HOPKINS [US]
- [T] US 5112962 A 19920512 - LETSINGER ROBERT L [US], et al
- [XD] FEBS LETTERS vol. 28, no. 2, February 1988, AMSTERDAM NL pages 273 - 276 O.S. FEDOROVA ET AL.
- [XP] NUCLEIC ACIDS RESEARCH. vol. 19, no. 7, 11 April 1991, ARLINGTON, VIRGINIA US pages 1527 - 1532 R.H. ALUL ET AL.
- [T] JOURNAL OF THE AMERICAN CHEMICAL SOCIETY vol. 113, 25 September 1991, WASHINGTON, DC US pages 7765 - 7766 J.-P. SHAW ET AL.
- See references of WO 9118997A1

Designated contracting state (EPC)

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