

Title (en)  
NON-NUCLEOTIDE PHOSPHOROUS ESTER OLIGOMERS

Title (de)  
NICHT-NUKLEOTIDE PHOPHORESTER-OLIGOMERE

Title (fr)  
OLIGOMERES D'ESTER PHOSPHOREUX NON NUCLEOTIDIQUES

Publication  
**EP 0880532 A1 19981202 (EN)**

Application  
**EP 97933585 A 19970122**

Priority  
• US 9701060 W 19970122  
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Abstract (en)  
[origin: WO9728168A1] A phosphorus ester oligomer having structure (I) wherein A can be the same or different in each monomeric unit and each is independently selected from the group consisting of oxygen, sulfur, lower alkyl, substituted or unsubstituted alkylamino, substituted or unsubstituted arylamino and aminoalkyl; B1 and B2 can be the same or different and each is independently selected from hydrogen, lower alkyl, a labelling group, a protecting group, a phosphoramidate or a phosphomonoester; R1 can be the same or different in each monomeric unit, and in at least one of the non-nucleotide monomeric units, R1 is independently selected from the group consisting of a condensation product of (i) a non-vicinal diol attached to a hydrogen bond donor functionality; (ii) a hydrogen bond acceptor selected from an ether, a purine or pyrimidine substituted 1,2-diol or a disubstituted heterocycle; (iii) a non-vicinal diol attached to a hydrophobic functionality or a vicinal diol attached to an aliphatic or alicyclic hydrophobic functionality; (iv) a diol attached to a ring substituted anionic functionality and (v) a cationic moiety attached to a non-vicinal or alicyclic diol, any of which can further include a detectable label, and n is at least one. Preferred R1 moieties include condensation products of heterocyclic diols, alicyclic diols, and polycyclic diols. Also the non-nucleotide monomers thereof, combinatorial library mixtures of the oligomers and the use of the oligomers as selective target-binding compounds.

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IPC 8 full level  
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CPC (source: EP)  
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