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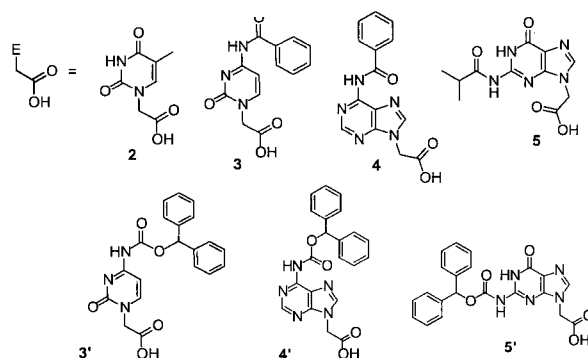
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Fig. 2



(57) Abstract: Disclosed is a peptide nucleic acid monomer as well as a corresponding peptide nucleic acid molecule. The monomer comprises a terminal amino group and a terminal group A. The terminal amino group and the terminal group A are connected by an aliphatic moiety. The main chain of this aliphatic moiety is free of groups that are charged under physiological conditions. The terminal group A is one of -COOH, -COOR³, -COX, -COSR³, -CN, -CONH₂, -CONHR³, -CONR³, R⁴, with R³ and R⁴ being H or an aliphatic, alicyclic, aromatic, a rylaliphatic or arylalicyclic group, and X being a halogen atom. The terminal amino group is substituted by an aliphatic group with a main chain of at least two carbon atoms and optionally 0 to about 2 heteroatoms selected from the group N, O, S, Se and Si. The main chain has a polar head group Z.