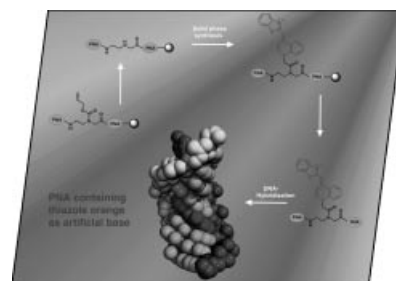


COVER PICTURE

The cover picture shows the divergent synthesis of peptide nucleic acid based probes in which the DNA intercalator dye thiazole orange serves as a base surrogate. The so-called FIT (Forced Intercalation of Thiazole orange) PNA probes can provide information about the hybridization to complementary DNA by enhancement of fluorescence. The graphical representation depicted in the bottom left corner gives an idea of the structure of FIT PNA complexed by DNA. In this model, FIT PNA has been hybridized to DNA that contains an abasic site opposite to thiazole orange. The article by O. Seitz et al. on p. 3187ff. describes the details of linear and divergent solid-phase syntheses of FIT PNAs. Both methods provide very rapid access and should be applicable to the synthesis of any type of base-modified PNA molecule.



MICROREVIEW

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Chiral *N*-Acylhydrazones: Versatile Imino Acceptors for Asymmetric Amine Synthesis

Keywords: Hydrazones / Amines / Radical reactions / Nucleophilic addition / Asymmetric synthesis

