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Symmetrical Dinucleosides

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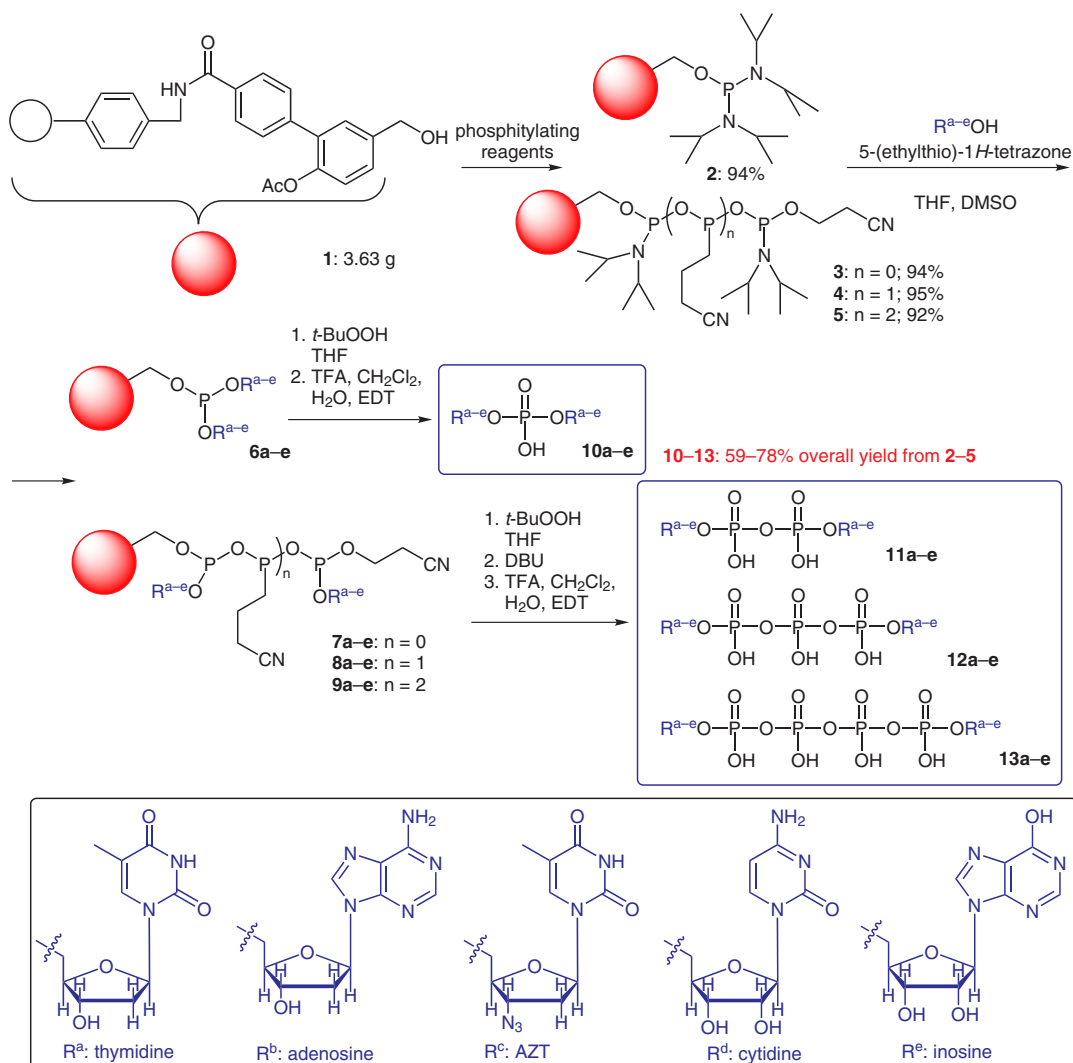
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Symmetrical Dinucleosides



Significance: Symmetrical 5',5'-dinucleoside mono-, di-, tri- and tetraphosphodiester **10-13** were prepared on solid supports starting from aminomethyl polystyrene resin-bound *p*-acetoxymethyl alcohol **1**. Thymidine, adenosine, AZT, cytidine and inosine were used without their protections to give the corresponding products in 59-78% overall yield.

Comment: The authors have reported the utility of **1** for the preparation of sulfonamides (*J. Org. Chem.* **2006**, *71*, 7915). To the best of the authors' knowledge, this is the first report of the synthesis of 5',5'-dinucleoside 5',5'-phosphodiester by using polymer-bound phosphitylating reagents.

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