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Synthesis of Methoxyethyl Nucleoside Dimer Phosphoramidites

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Abstract

Four types of methoxyethyl (MOE) nucleoside phosphoramidites, which are categorized as second-generation building blocks of antisense oligonucleotide drugs, were synthesized. Also, three types of MOE nucleoside dimer phosphoramidites were synthesized to increase the efficiency and oligomer purity in solid phase synthesis. The block-like dimer phosphoramidites can prevent or minimize the formation of the (N¹) mer impurity, thereby affording the fabrication of pure oligonucleotides and reducing the synthesis time by performing coupling reactions in the order of 2nd + 1st + 2nd + 1st.

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- Gi Weon Yu and Yong Han Kang, Solid-Phase Synthesis of 2'-Methoxyethyl Oligonucleotides Using Dimeric Phosphoramidite Blocks, *Bulletin of the Korean Chemical Society*, **37**, 11, (1754-1759), (2016).
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```

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```