

Balticum Organicum Syntheticum

3-6 July 2016 Riga, Latvia

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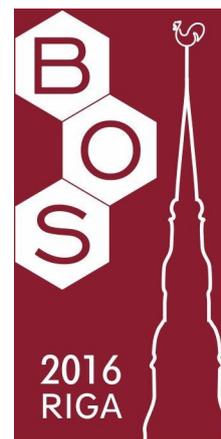
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Regioselective Synthesis of Novel Purine and 7-Deazapurine Derivatives with 1,2,3-Triazole Moiety

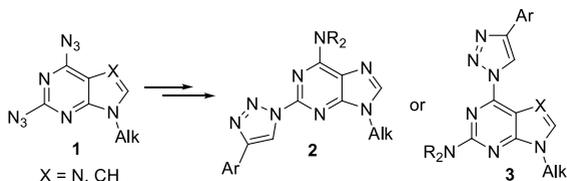
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Purine and its analogs are useful as fluorescent sensors and reporters for biological applications and are important molecular scaffolds in terms of medicinal chemistry. In continuation of our previous work,¹ herein we report a regioselective synthesis of 6-/2-(1,2,3-triazolyl)purine and 6-(1,2,3-triazolyl)-7-deazapurine derivatives. Target products **2** and **3** were obtained from 9-alkyl-2,6-diazido-(7-deaza)-purines **1** by employing S_NAr and CuAAC reaction series. Depending on the starting material and the applied synthetic sequence products **2** and **3** can be obtained selectively. Synthetic approaches of compounds with general structures **2** and **3** will be discussed in detail.



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