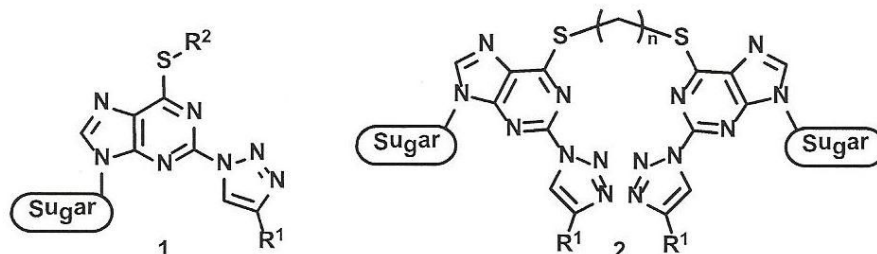


## 2,6-BIS-(1,2,3-TRIAZOLYL)PURINES IN REACTIONS WITH S-NUCLEOPHILES

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Recently, we have reported the synthesis and application of 2,6-bis-(1,2,3-triazol-1-yl)purine nucleosides [1]. The 1,2,3-triazolyl ring at C(6) position of purine has been shown as good leaving group in nucleophilic aromatic substitution reactions. In this study, we extended the range of nucleophiles with thioles. The latter produced products with general formulas **1** and **2**. Triphenylmethyl mercaptan, thiophenol, dodecanthiol, benzylthiol, propane-1,3-dithiol, decane-1,10-dithiol were used for the substitution. For example, *S*-trityl protected 2-triazolyl-6-thiopurine derivative was obtained in reaction of 9-(2',3',5'-tri-*O*-acetyl- $\beta$ -D-ribofuranosyl)-2,6-(4-phenyl-1*H*-1,2,3-triazol-1-yl)-9*H*-purine with triphenyl-methyl mercaptan in good (80%) yield. Reactions of the same substance with thiophenol and dodecanethiol proceed equally smoothly in DMF in presence of dry  $K_2CO_3$ . After deprotection of sugar moiety with  $MeNH_2/H_2O$  target compounds were isolated in 82% and 62% yield.



### References:

1. Kovaļovs, A.; Novosjolova, I.; Bizdēna, Ē.; Bižāne, I.; Skardziute, L.; Kazlauskas, K.; Jursenas, S.; Turks, M. *Tetrahedron Lett.* **2013**, *54*, 850.