SYNTHESIS OF FUNCTIONAL DERIVATIVES OF 3-AMINO-2-R-7-(R'-PHENYL)-3H-THIENO[3,2-d]PYRIMIDINE-4-ONES AIMED TO THE SEARCH BIOLOGICALLY ACTIVE SUBSTANCES

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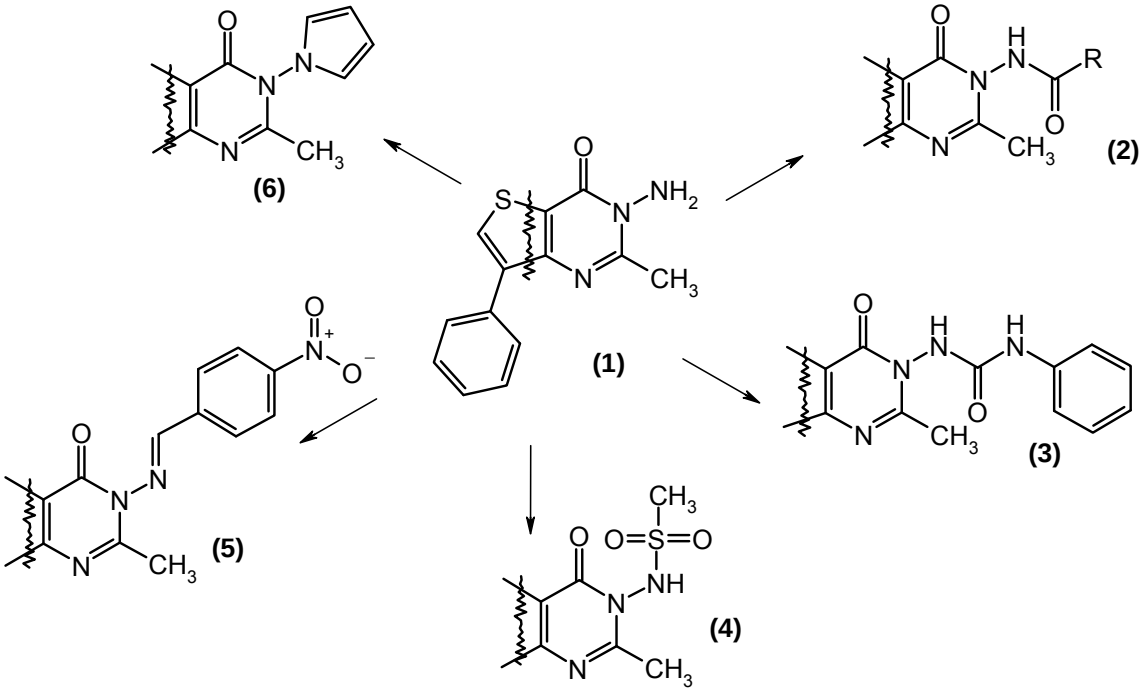
In a previous report it was shown possibility of one-pot synthesis for 3-amino-2-R-7-(R'-phenyl)-3*H*-thieno[3,2-*d*]pyrimidine-4-ones (**1**). The aim of presented work is studying of the reactivity of the amino group in structure of mentioned above compounds. It is known that such modifications lead to a significant increasing of the biological activity of corresponding derivatives. Moreover, it is known that, in some cases, modification of amino groups of bioactive substances aimed to the improving of molecule stability in acidic medium and maintaining of activity.



Chemical transformation of 3-amino-2-R-7-(R'-phenyl)-3*H*-thieno[3,2-*d*]pyrimidine-4-ones (**1**) was performed by known methods. Thus, products of acylation (**2**); non-symmetric carbamides (**3**); sulfamides (**4**); Schiff bases (**5**) and derivatives which contains pyrrole fragment (**6**) were obtained. The structures of the compounds proved by complex of physicochemical methods.