SYNTHESIS OF DERIVATIVES BASED ON 2- (5- (2- (3-METHYL-2,6-DIOXO-2,3,6,7-TETRAHYDRO-1H-PURIN-8-IL) ETHYL) -4H-1,2, 4-TRIAZOL-3-ILTIO) ACETIC ACID

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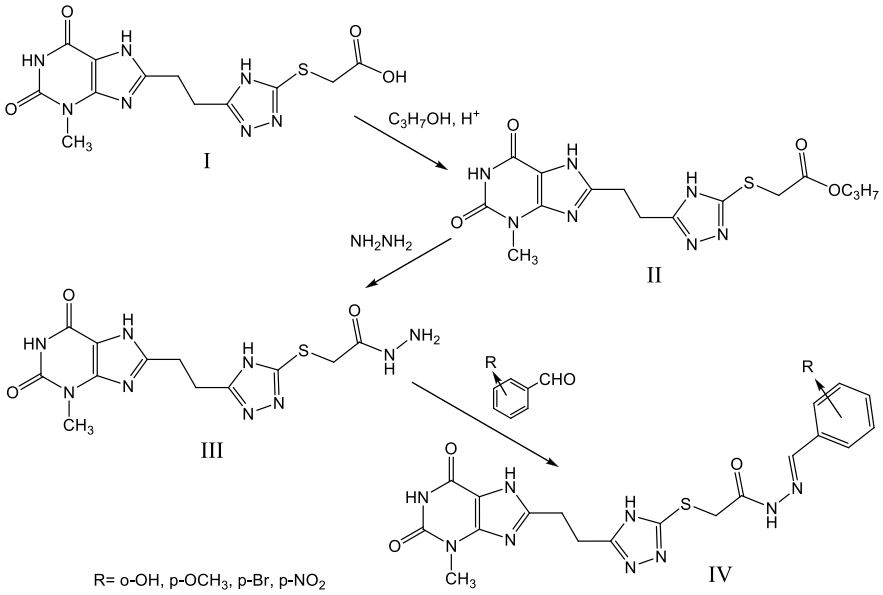
Interest in the chemistry of purine, xanthine and their condensed derivatives is explained by the fact that a large number of compounds in this series have a fairly wide range of biological activity.

Continuing the search for new, previously not described in the literature, potential biologically active substances in the series of xanthine derivatives, we synthesized some 2- (5-(2-(3-methyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)ethyl)-4H-1,2,4-triazol-3-ylthio) acetic acid. The esterification of the acid (I) led to the formation of an ester (II), the corresponding hydrazide (III) was obtained by hydrazinolysis. When the latter was heated with aromatic aldehydes in acetic acid, hydrazones (IV) were obtained.



Synthesized compounds are tested for various types of biological activity.

The structure of the synthesized compounds was established by means of IR, PMR, and mass spectrometry.