Conjugated nitroalkenes in reactions with azomethine imines: Synthesis of tetrahydropyrazolo[1,2-a]pyrazolone derivatives

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Reactions of (Z)-2-arylidene-5-oxopyrazolidin-2-ium-1-ides 1 with 3-nitro-2-phenyl-2H-chromenes 2 and conjugated (E)-nitropropenes 3 proceed effectively as [3+2] cycloaddition to give products 4 and 5 as single regio- and diastereomers with good yields. The products obtained are of interest due to their potential biological activity. Study of cytotoxicity of the described tetrahydropyrazolo[1,2-a]pyrazolone derivatives is in process.

Biography

Zimnitskiy N. S. has graduated from the Ural Federal University in 2015 and since then has been working there as a post-graduate student and the junior researcher. As a member of the research group led by prof. Sosnovskikh, he has 3 papers published in peer-reviewed journal within the last year on the topics of unsaturated nitro compounds, heterocyclic compounds and fluoroorganic chemistry.

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