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Michael/Michael Addition Cascade of 2-Benzylidene-1-indanones with Chalcones: Synthesis and Biological Evaluations of Novel **Polycyclic Compounds**

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This work is dedicated to the memory of Professor İsmail Çelik (1961–2019), lecturer of Sivas Cumhuriyet University.

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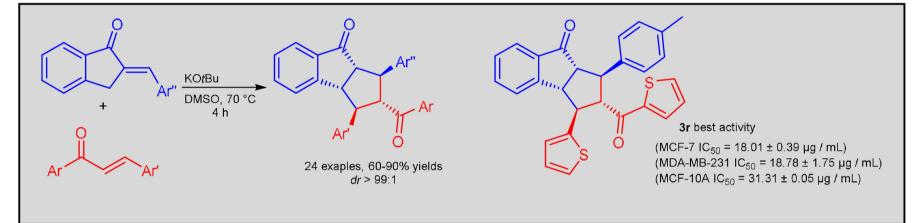
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Valérie Maraval, Régis Laurent, Sonia Merino, Anne-Marie Caminade, Jean-Pierre Majoral

European Journal of Organic Chemistry

Abstract

Herein the synthesis of novel racemic polycyclic compounds that have five stereo centers is presented. This compounds were synthesized from KOtBu mediated Michael/Michael addition reaction of 2-benzylidene-1-indanones with chalcones in high yields. This method provides an efficient route for the synthesis of a new class of polycyclic compounds in high diastereoselectivity. The obtained compounds were evaluated for the antimicrobial and anticancer activities against fifteen microorganism and three cell lines. The compound 3 r was showed the best activity against the MCF-7, MDA-MB- 231 and MCF-10 A cell lines.



Abstract

A series of novel racemic 2-aryloyl-1,3-diaryl-2,3,3a,8a-tetrahydrocyclopenta[a]inden-8(1*H*)-one derivatives were synthesized from KO*t*Bu mediated Michael/Michael addition reaction of 2-benzylidene-1-indanones with chalcones in high yields. This method provides an efficient route for the synthesis of a new class of polycyclic compounds have five stereo centers. The obtained polycyclic compounds were evaluated for the antimicrobial and anticancer activities against fifteen microorganism and three cell lines. The compound 3 r have the best activity value against the cells (MCF-7 IC₅₀=18.01±0.39 μ g/mL) (MDA-MB- 231 IC₅₀=18.78±1.75 μ g/mL) (MCF-10 A IC₅₀=31.31±0.05 μ g/mL).

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