

Preliminary Evaluation of Antimicrobial Activity of Diastereomeric *cis/trans*-3-Aryl(Heteroaryl)-3,4-dihydroisocoumarin-4-carboxylic Acids

Milen G. Bogdanov^{a,*}, Meglena I. Kandinska^a, Darina B. Dimitrova^b,
Blagovesta T. Gocheva^b, and Mariana D. Palamareva^a

^a Faculty of Chemistry, Sofia University, 1, J. Bourchier Blvd., 1164 Sofia, Bulgaria.
E-mail: mbogdanov@chem.uni-sofia.bg

^b Biological Faculty, Sofia University, 8, Dr. Tzankov Blvd., 1164 Sofia, Bulgaria

* Author for correspondence and reprint requests

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Preliminary differentiating screening of the antibacterial and antifungal activity of a series of diastereomeric *cis/trans*-3-aryl(heteroaryl)-3,4-dihydroisocoumarin-4-carboxylic acids (**3a–i**) was performed by the agar diffusion method against twelve microorganism strains of different taxonomic groups. *S. aureus* and *A. niger* were the most sensitive strains to the antibiotic effect of the tested compounds, both inhibited by 10 of 12 compounds. The most potent antibacterial agent was *cis*-3-phenyl-3,4-dihydroisocoumarin-4-carboxylic acid (*cis*-**3a**), exhibiting activity against all seven bacterial test strains.

Key words: Isocoumarin, Antibacterial, Antifungal, Homophthalic Anhydride