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The first total synthesis of the antiviral flavonoid houttuynoid A (1) has been achieved from aryl ketone 6 and benzofuran aldehyde 5 in nine linear steps. The C₆-C₃-C₆ structure of the flavonoid was synthesized by an I₂-catalyzed oxa-Michael addition of a chalcone intermediate, generated by the Claisen-Schmidt condensation of 5 and 6.

Total Synthesis of the Flavonoid Natural Product

Total Syntheses of Natural Products. Organic Chemistry Info. Total Syntheses Names - Keywords - Reagents - Named Reactions - Year. Total Syntheses of Natural Products. Names - Acknowledgment - Acronyms Used - A-J ... Synthetic scheme for total synthesis of -Explanation

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The first synthesis of coprinol has been achieved from 2-methoxy-3,5-dimethylbenzaldehyde via the intermediacy of an indanone derivative where dialkylation, Friedel-Crafts acylation, demethylation, and regioselective formation of a primary -OH group from a chloroacetyl group are the key steps.

Total Synthesis of Coprinol - Journal of Natural Products

THE TOTAL SYNTHESIS OF NATURAL PRODUCTS The Total Synthesis of Natural Products VOLUME 6 Edited by John ApSimon Ottawa-Carleton Institute for Research and Graduate Studies in Chemistry and Department of Chemistry Carleton University, Ottawa

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eration total synthesis of azaspiracid-1 was successfully extended to the synthesis of its siblings, aza-spiracid-2 and -3 [16]. ©2008 IUPAC, Pure and Applied Chemistry 80, 727-742 Complex heterocyclic natural products 731 Scheme 3 Highlights of the total synthesis of azaspiracid-1 (2). Construction of the C1-C27 fragment.

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