

Regioselective Tandem [4 + 1]-[4 + 2] Synthesis of Amino-Substituted Dihydroxanthenes and Xanthenes

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A highly convergent and operationally simple approach to mycotoxin-related 4-amino-substituted 1-hydroxydihydroxanthenes is described. The target compounds are obtained in one pot by the multicomponent reaction of 3-carbonylchromones, isocyanides, and nonsymmetric dienophiles. The reaction, which involves a tandem [4 + 1]-[4 + 2] cycloaddition, efficiently affords a variety of both monomeric and dimeric polysubstituted dihydroxanthenes structurally similar to bioactive ergochromes. Further aromatization to the corresponding xanthenes is readily achieved by treatment with DBU under microwave irradiation.

Fuente de la publicación:

- [Regioselective Tandem \[4 + 1\]-\[4 + 2\] Synthesis of Amino-Substituted Dihydroxanthenes and Xanthenes](#) [1]

Proyectos relacionado:

- [Estudios computacionales en Reacciones Multicomponentes](#) [2]

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[1] <http://pubs.acs.org/doi/abs/10.1021/acs.joc.5b00658> [2] <http://www.cenits.es/proyectos/estudios-computacionales-reacciones-multicomponentes-0> [3] <http://www.cenits.es/noticias/10062015-investigadores-uex-publican-revista-internacional-sobre-quimica-organica-gracias>