

Synthesis of Euchrestifoline Using Iron- and Palladium-Catalyzed C-H Bond Activations

Puls F., Kataeva O., Knölker H.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2018 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim We describe a short and efficient synthetic route to euchrestifoline. Key steps of our approach are the iron(III)-catalyzed Wacker-type oxidation of a chromene derivative with hexadecafluorophthalocyanine-iron (FePcF16) as catalyst, a palladium(0)-catalyzed Buchwald-Hartwig amination, and the final palladium(II)-catalyzed oxidative cyclization of the resulting diarylamine to the natural product.

<http://dx.doi.org/10.1002/ejoc.201800872>

Keywords

Homogeneous catalysis, Iron, Natural products, Oxidation, Oxidative cyclization

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