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Tetrahedron Letters

Volume 51, Issue 44, 3 November 2010, Pages 5798-5800

Synthesis of novel 2,3-dihydro-4-pyridinones from bisdemethoxycurcumin under microwave irradiation

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<https://doi.org/10.1016/j.tetlet.2010.08.115>

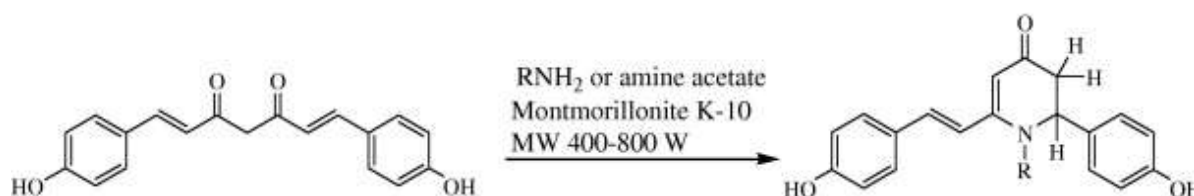
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Abstract

A novel synthesis of 2,3-dihydro-4-pyridinones via the reaction of bisdemethoxycurcumin and primary amines or amine acetates is demonstrated. The structures of the products were established by elemental analysis and from mass, ¹H and ¹³C NMR spectra.

Graphical abstract

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Keywords

Bisdemethoxycurcumin; Microwaves; Montmorillonite K-10; Dihydropyridones

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