

Murrayaquinone A の形式全合成および Furostifoline の全合成研究

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Novel Syntheses of Murrayaquinone and Furostifoline Through 4-Oxygenated Carbazoles by Allene-Mediated Electrocyclic Reactions Starting from 2-Chloroindole-3-carbaldehyde

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ABSTRACT: The formal total synthesis of murrayaquinone A and the total synthesis of furostifoline were completed by the construction of 4-oxygenated 3-methylcarbazoles based on a new type of electrocyclic reaction through 2-alkenyl-3-allenylindole intermediates derived from the 2-alkenyl-3-propargylindoles, starting from 2-chloroindole-3-carbaldehyde.

抄録 インドールの3位にアレンを組み込んだ新6 π 電子系電子環状反応により4位に酸素官能基、3位にメチル基を有するカルバゾールを構築し、カルバゾールキノン構造の murrayaquinone A の形式全合成および furo [3,2-*a*] carbazole 構造の furostifoline の全合成を達成した。