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Metal-Free, Brønsted Acid-Mediated Synthesis of Coumarin Derivatives from Phenols and Propiolic Acids

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ABSTRACT

A novel synthesis of coumarin derivatives by Brønsted acid-mediated condensation and intramolecular cyclization of phenols and propiolic acids was reported. This transformation requires the use of TfOH in place of a conventional metal mediator, and it occurs under mild conditions and provides rapid access to coumarin derivatives in good yields.

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