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Synthesis of highly substituted tetrahydroquinolines using ethyl cyanoacetate via aza-Michael-Michael addition

A three-component cascade reaction of 2-alkenyl aniline, aldehydes, and ethyl cyanoacetate mediated by DBU to synthesize highly substituted 1,2,3,4-tetrahydroquinolines. The reaction proceeded through the Knoevenagel condensation of ethyl cyanoacetate with aldehydes followed by the aza–Michael–Michael addition with 2-alkenyl anilines to prepare the tetrahydroquinoline scaffolds.

One pot -three component No metals or strong oxidants Simple reaction conditions Verstaile to different Michael Acceptors

dr up to 93:7 yields upto 96%, 27 examples