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A one-pot tandem synthesis of various 1,2-disubstituted benzimidazoles

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Abstract

A facile method to synthesize various 1,2-disubstituted benzimidazoles is developed. It is suggested that formation of a Meisenheimer adduct between the substrate, amine and solvent aids the N-arylation process. The generality of the protocol is demonstrated by the efficient reactions involving numerous substituents ranging from electron-withdrawing groups to electron-donating groups.

Key words: Substituted benzimidazoles, Tandem synthesis, Cycloaddition

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