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Yeong Keng Yoon, Mohamed Ashraf Alia, Ang Chee Wei, Tan Soo Choon, Hasnah Osman

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

Yeong Keng Yoon[a*], Mohamed Ashraf Ali[a,b,c], Ang Chee Wei[a], Tan Soo Choon[a], Hasnah Osman[d]

[a]*Institute for Research in Molecular Medicine, Universiti Sains Malaysia, Minden, 11800, Penang, Malaysia.*

[b]*New Drug Discovery Research, Department of Medicinal Chemistry, Alwar Pharmacy College, Alwar, Rajasthan-301030, India.*

[c]*New Drug Discovery Research, Department of Medicinal Chemistry, Sunrise University, Alwar, Rajasthan-301030, India.*

[d]*Department of Organic Chemistry, School of Chemical Sciences, Universiti Sains Malaysia, Minden, 11800 Penang, Malaysia.*

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

* Corresponding author:

Yeong Keng Yoon

Institute for Research in Molecular Medicine, Universiti Sains Malaysia, Minden, 11800, Penang, Malaysia.

Phone: +604 6593140

Fax: +604 6569796

Email: kyyeong@gmail.com