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Practical application of PhI(OAc)₂/I₂ combination to synthesize benzimidazoles from 2-aminobenzylamine through ring distortion strategy

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PII: S0040-4039(17)30143-0

DOI: http://dx.doi.org/10.1016/j.tetlet.2017.01.099

Reference: TETL 48602

To appear in: Tetrahedron Letters

Received Date: 26 December 2016 Revised Date: 25 January 2017 Accepted Date: 27 January 2017



Please cite this article as: Saha, M., Mukherjee, P., Das, A.R., Practical application of PhI(OAc)₂/I₂ combination to synthesize benzimidazoles from 2-aminobenzylamine through ring distortion strategy, *Tetrahedron Letters* (2017), doi: http://dx.doi.org/10.1016/j.tetlet.2017.01.099

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Graphical Abstract

Practical application of $PhI(OAc)_2/I_2$ combination to synthesize benzimidazoles from 2-aminobenzylamine through ring distortion strategy

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$$\begin{array}{c} \text{PhI}(\text{OAc})_2 \text{ (0.5 equiv)} \\ \text{NH}_2 \\ \text{NH}_2 \\ \text{+} \\ \text{R}_1 - \text{CHO} \\ \end{array} \\ \begin{array}{c} \text{PhI}(\text{OAc})_2 \text{ (0.5 equiv)} \\ \text{DCM} \\ \text{rt} \\ \text{21 examples, upto 96\%yield} \\ \\ \text{R}_1 = -\text{aryl.} \\ -\text{heteroaryl.} \\ -\text{alkyl} \end{array}$$

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