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Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/2189 Title: One-pot, solvent-free Pd(II)-catalyzed direct β -C-H arylation of carboxamides involving anhydrides as substrates via in situ installation of directing group Authors: Dalal, A. (/jspui/browse?type=author&value=Dalal%2C+A.) Singh, Prabhakar (/jspui/browse?type=author&value=Singh%2C+Prabhakar) Babu, S.A. (/jspui/browse?type=author&value=Babu%2C+S.A.) Keywords: Multicomponent-type Typically Carboxamides Issue Date: Publisher: Elsevier Citation: Tetrahedron, 75(9), pp.1246-1257. Abstract: A one-pot, multicomponent-type, solvent-free Pd(II)-catalyzed direct β -C-H activation/arylation of carboxamides involving anhydrides as substrates via in situ installation of directing group (DG) is reported. Typically, the DG-assisted β -C-H activation/arylation of carboxamides is a two-step process comprising the installation of DG and Pd(II)-catalyzed Csingle bondH arylation. We attempted a multicomponent-type reaction comprising an anhydride, a DG (e.g. 8-aminoquinoline), an aryl iodide in the presence of the Pd(II) catalyst and an appropriate additive. Different anhydrides, DGs, aryl iodides, catalysts and additives were screened to reveal the scope of this multicomponent-type Csingle bondH arylation reaction process and various $\beta\text{-C-H}$ arylated carboxamides were obtained in satisfactory to good yields. URI: https://www.sciencedirect.com/science/article/pii/S004040201930081X (https://www.sciencedirect.com/science/article/pii/S004040201930081X) http://hdl.handle.net/123456789/2189 (http://hdl.handle.net/123456789/2189)

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