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Title:	Ortho-Benzoylation of N-Alkyl Benzamides with Aromatic Acids Catalyzed by Ruthenium(II) Complex
Authors:	Padala, K. (/jspui/browse?type=author&value=Padala%2C+K.) Jeganmohan, M. (/jspui/browse?type=author&value=Jeganmohan%2C+M.)
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Abstract:	A highly regioselective ortho-benzoylation of N-alkyl benzamides with aromatic acids in the presence of $[(RuCl_2(p\text{-cymene}))_2]$, $AgSbF_6$, and $(NH_4)_2S_2O_8$ in 1,2-dichloroethane at 100 °C for 24 h affording ortho-benzoylated N-alkyl benzamides by C-H bond activation is described. Further, Ru-catalyzed alkenylation is done at the ortho C-H bond of benzoylated N-alkyl benzamides with alkenes in water solvent. Subsequently, the benzoyl moiety of N-alkyl benzamides was converted into a hydroxyl group in the presence of base or acid. A possible reaction mechanism was proposed to account for the present coupling reaction.
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