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Title:	Metal- and Hydride-Free Pentannulative Reductive Aldol Reaction
Authors:	Satpathi, B. (/jspui/browse?type=author&value=Satpathi%2C+B.) Dutta, L. (/jspui/browse?type=author&value=Dutta%2C+L.) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	Metal-catalyzed Hydride-promoted Phosphine-mediated
Issue Date:	2019
Publisher:	American Chemical Society
Citation:	Organic Letters, 21(1),pp. 170-174.
Abstract:	Traditionally, the reductive aldol reaction is a metal-catalyzed and hydride-promoted coupling between enones and aldehydes. We present a phosphine-mediated diastereoselective intramolecular reductive aldol reaction of α -substituted dienones and aldehydes, which is metal-free and hydride-free. The synthetic utility of the reductive aldol adducts is demonstrated by elaborating them in one step to indeno[1,2-b]furanones, indeno[1,2-b]pyrans, and dibenzo[a,h]azulen-8-ones.
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