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Title:	Rhodium-Catalyzed Spirocyclization of Maleimide with N-Aryl-2,3-dihydrophthalazine-1,4-dione to Access Pentacyclic Spiro-Succinimides
Authors:	Mandal, Sanjay K. (/jspui/browse?type=author&value=Mandal%2C+Sanjay+K.)
Keywords:	Rhodium-Catalyzed Spiro-Succinimides
Issue Date:	2021
Publisher:	Wiley
Citation:	Asian Journal of Organic Chemistry, 10(10), 2580–2590.
Abstract:	A one-pot spirocyclization of 2-aryl-2,3-dihydrophthalazine-1,4-diones with maleimides was achieved via RhIII-catalyzed sequential ortho-alkenylation followed by intramolecular aza-Michael-type addition/protonation process. The featured strategy furnishes a series of diversely decorated spiro[indazolo[1,2-b]phthalazine-13,3'-pyrrolidine]-2',5',6,11-tetraones in high yields from a variety of 2-aryl-2,3-dihydrophthalazine-1,4-diones and N-aryl/alkyl maleimides, which can be scaled-up easily. Isolation and characterization of a maleimide-coordinated five-membered rhodacyclic intermediate provided a strong evidence for the proposed mechanism of the reaction.
Description:	Only IISER Mohali authors are available in the record.
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