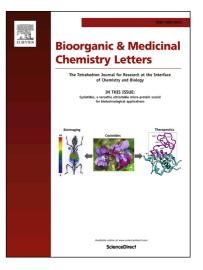
Accepted Manuscript

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PII:	S0960-894X(18)30302-0
DOI:	https://doi.org/10.1016/j.bmcl.2018.04.004
Reference:	BMCL 25751
To appear in:	Bioorganic & Medicinal Chemistry Letters
Received Date:	2 February 2018
Revised Date:	31 March 2018
Accepted Date:	2 April 2018



Please cite this article as: Rau, H.H., Werner, N.S., Stereospecific synthesis of (*E*)-stilbene derivatives by palladiumcatalyzed Suzuki-Miyaura cross-coupling reaction, *Bioorganic & Medicinal Chemistry Letters* (2018), doi: https:// doi.org/10.1016/j.bmcl.2018.04.004

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ACCEPTED MANUSCRIPT

Stereospecific synthesis of (*E*)-stilbene derivatives by palladium-catalyzed Suzuki-Miyaura cross-coupling reaction

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Abstract

A general procedure for the stereospecific synthesis of (*E*)-stilbene derivatives by palladium-catalyzed Suzuki-Miyaura cross-coupling reaction of (*E*)-2-phenylethenylboronic acid pinacol ester with aryl bromides was investigated. (*E*)-2-phenylethenylboronic acid pinacol ester was prepared by 9-BBN-catalyzed hydroboration of phenylacetylene with pinacolborane. This reagent undergoes facile palladium-catalyzed cross-coupling with a diverse set of aryl bromides to provide the corresponding (*E*)-stilbene derivatives in moderate to good yield. The use of the sterically bulky t-Bu₃PHBF₄ ligand was crucial to the successful coupling of electron-rich and electron-poor aryl bromides.

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