

Palladium-catalyzed Suzuki-Miyaura cross-coupling of *N*-mesylamides by N—C cleavage : electronic effect of the mesyl group.

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A general Pd-catalyzed Suzuki-Miyaura cross-coupling of *N*-mesylamides with arylboronic acids by selective N-C cleavage has been developed. The presented results represent the first example of a transition-metal-catalyzed cross-coupling of amides activated by an atom-economic, cheap, and benign mesyl group. The reaction delivers arylated products featuring a range of useful functional groups by chemoselective cleavage of the amide N-C bond with high efficiency. Both the scope and the origin of high selectivity are discussed. A beneficial effect of the *N*-mesyl substituent on the bond activation in acyclic amides is presented.

Adres publiczny

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<https://www.acs.org/content/acs/en.html>