Synthesis of 5-arylthiazoles. Comparative study between Suzuki cross-coupling reaction and direct arylation.

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Abstract:

A facile synthetic route to the new thiazol-5-ylboronic acid pinacol ester was described herein. Its reactivity toward Suzuki cross-coupling reaction was studied to provide various 5-arylthiazoles. A comparative study between Suzuki cross-coupling reactions and palladium-catalyzed C5–H direct arylation on thiazole ring was achieved. Graphical abstract Full-size image (11K)

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