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A flexible synthesis of naphthyridine derivatives through diazotization, triflation, and Suzuki reaction

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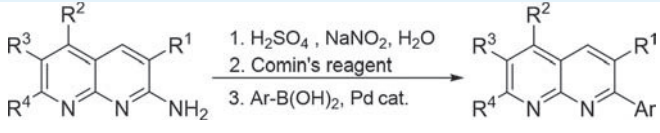
ABSTRACT A facile and suitable method for the synthesis of different 1,8-Naphthyridine derivatives is depicted. The procedure is based on the diazotization and triflation reactions of commercially available 1,8-naphthyridine-2-amines followed by cross-coupling with aromatic and heteroaromatic boronic acids through Suzuki reaction. These processes reserved the required yields in high percentage. All synthesized compounds were identified by spectral data.



KEY WORDS 1,8-Napthyridine derivatives, Diazotization, Triflate compounds, Comins' reagent, Suzuki reaction, Cross-coupling process, Palladium catalyst.