Supporting Information

The Double *N*-Arylation of Primary Amines: Carbazole Synthesis from 2,2'-biphenyldiols

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General. All manipulations involving air- and/or moisture-sensitive compounds were carried out using the standard Schlenk technique under argon purified by passing through a hot column packed with BASF catalyst R3-11. NMR spectra were recorded in deuteriochloroform on a 500 MHz NMR spectrometer (^1H 500 MHz; ^{13}C 125 MHz). Chemical shifts are reported in ppm from an internal standard: tetramethylsilane (0 ppm) for ^1H and ^{13}C . The recycling preparative HPLC was carried out by using chloroform as an eluent.

All the solvents used for reactions were distilled under argon after drying over an appropriate drying reagent. Most reagents were obtained commercially and were used without further purification unless otherwise specified. Finely grounded bases, such as potassium phosphate and cesium carbonate, were dried under vacuum (<0.1 mmHg) at 100 °C for 24 h. For a silica gel column chromatography, Wako-gel C-200 was used. Biphenylene ditriflate¹ and Compound **9**² were synthesized according to the literature.

References

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