

N-acylcarbazoles and *N*-acylindoles: electronically activated amides for N–C(O) cross-coupling by N_{lp} to Ar conjugation switch.

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Streszczenie

The development of new amide precursors for selective, catalytic activation of carbon–nitrogen bonds in amides is a fundamental objective of this emerging reactivity manifold. We report the palladium-catalyzed Suzuki–Miyaura cross-coupling of *N*-acylcarbazoles and *N*-acylindoles with arylboronic acids by a highly selective N–C(O) cleavage. The key amide bond ground-state destabilization stems from N_{lp} to Ar conjugation and enables us for the first time to achieve reactivity similar to that for *N*-acylsulfonamide and *N*-acylcarbamate activation in simple anilides.

Słowa kluczowe

Amides, Molecular properties, Reactivity, Cross coupling reaction, Resonance structures

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