

Solvent switchable Pd/DNA catalyst in carbonylative Sonogashira coupling.

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Streszczenie

Palladium catalysts immobilized on DNA (Pd/DNA) were applied for the first time in the carbonylative Sonogashira coupling, at 1atm of CO. Different alkynones were obtained with a high yield in DMF. In the presence of water, the selectivity completely changed and diaryl alkynes, typical Sonogashira products, were selectively formed. In addition to Pd/DNA, soluble palladium species also participated in the catalytic process. The stability of the catalytic system increased after the addition of DNA excess.

Słowa kluczowe

Palladium, Nanoparticles, DNA, Carbonylative Sonogashira coupling

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