

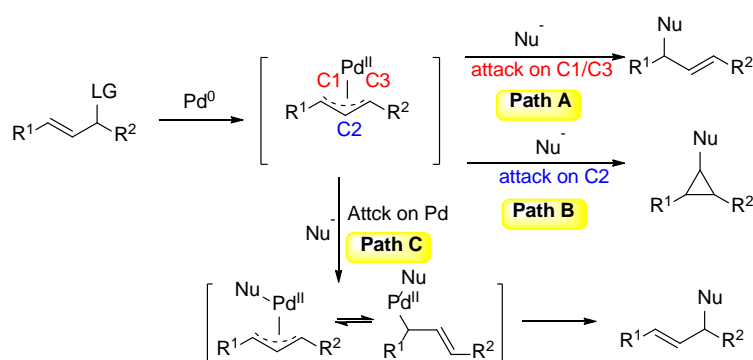
Palladium-Catalyzed Allylic Alkylation and Beyond[¶]

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The formation of metal- π allyl complex with transition-metal followed by the reaction with nucleophiles is a common process in organometallic chemistry. One example is palladium-catalyzed allylic alkylation, proceeding through the attack of nucleophile on the terminal carbon of π -allyl-Pd intermediates.^[1] However, there are some other reaction modes, in which the reaction proceeds through the attack of nucleophile on the central carbon and on the Pd of complex (Scheme 1).^[2] We found that the reaction pathways could be controlled by using the designed catalysts. The factors influencing the selectivities of the reactions were studied and some qualitative models were proposed to rationalize the observed selectivities.^[3]



Scheme 1

References

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[¶] Supported by the National Natural Science Foundation of China