

Insights: Publications

Cation-Controlled Olefin Isomerization Catalysis with Palladium Pincer Complexes

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Written by **Alexandra H. Farquhar, Ph.D.**

A series of palladium(II) pincer complexes with different substituents on the amine donor has been prepared and studied in olefin isomerization catalysis. Installing a macrocycle into the pincer ligand enables cation-switchable positional olefin isomerization: no reaction is observed with the catalyst alone, while in the presence of Li^+ salts isomerization proceeds cleanly. Mechanistic studies implicate a key role of highly electrophilic Pd centers with accessible olefin binding sites in catalysis.

Related People



Alexandra H. Farquhar, Ph.D.

t 404.815.6442

afarquhar@ktslaw.com