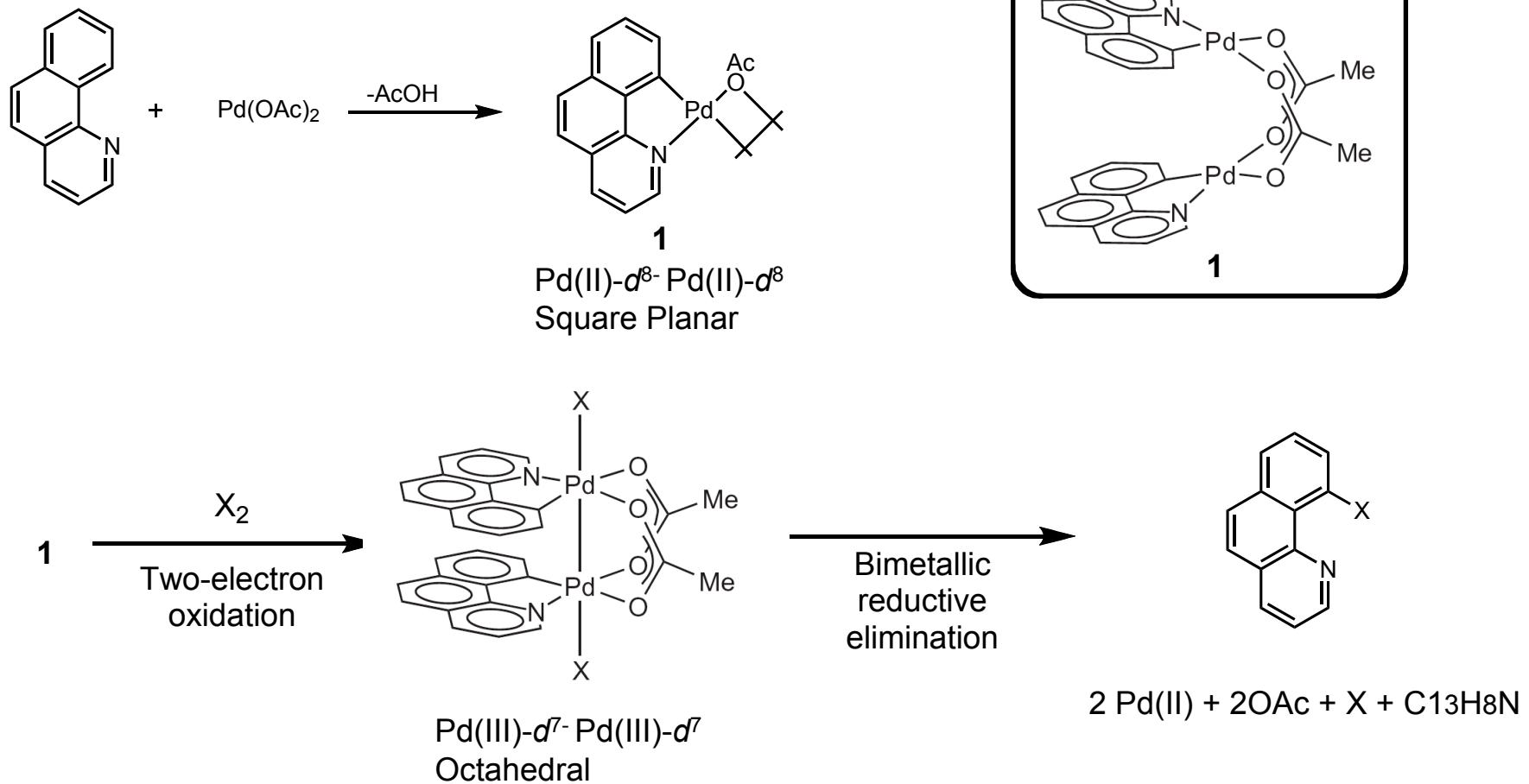


Bimetallic Pd(III) Complexes in Palladium-Catalysed Carbon-Heteroatom Bond Formation

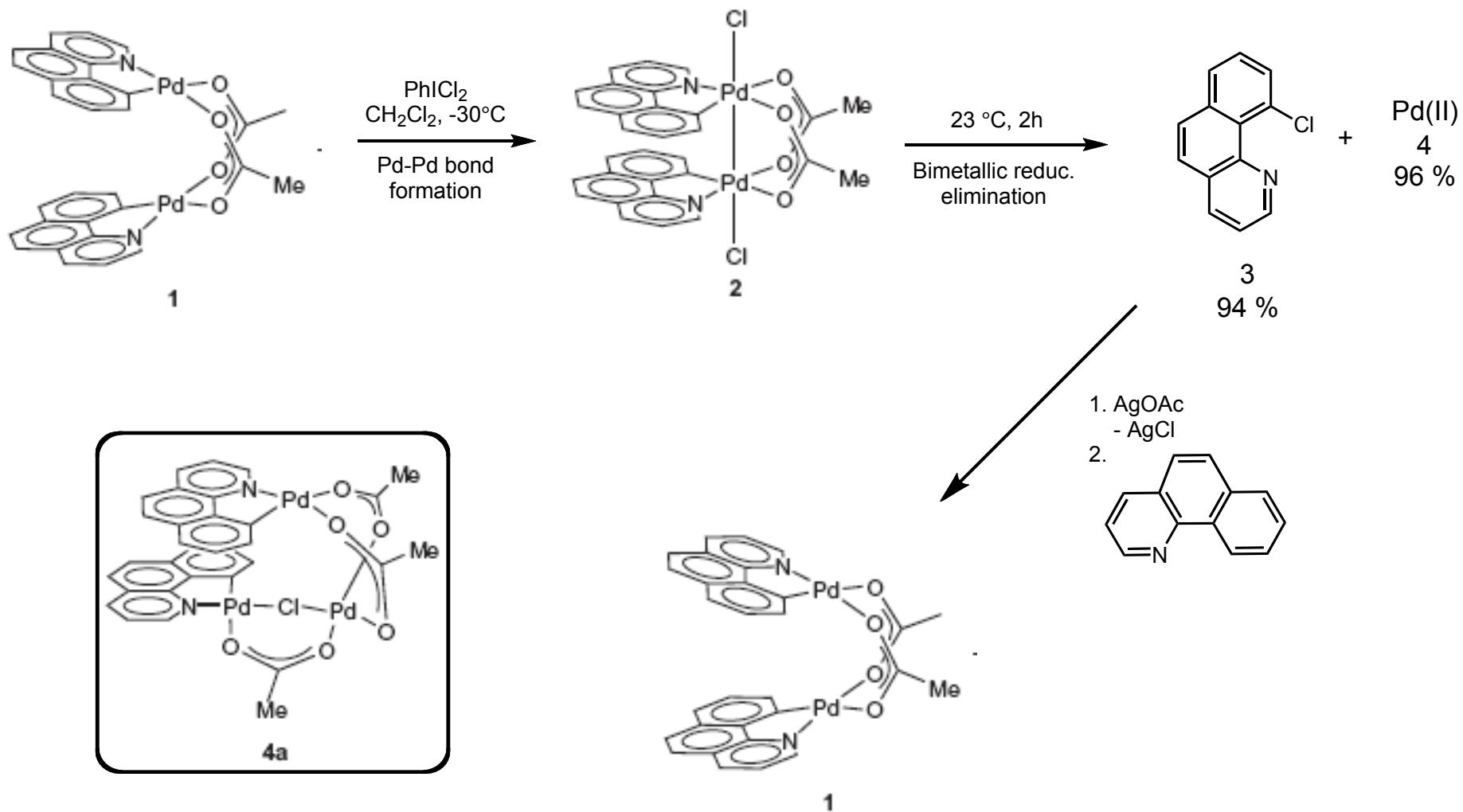
Powers, D. C.; Ritter, T. *nature chem.* **2009**, *1*, 302-309.

Wynter Gilson
Literature Presentation
August 7, 2009

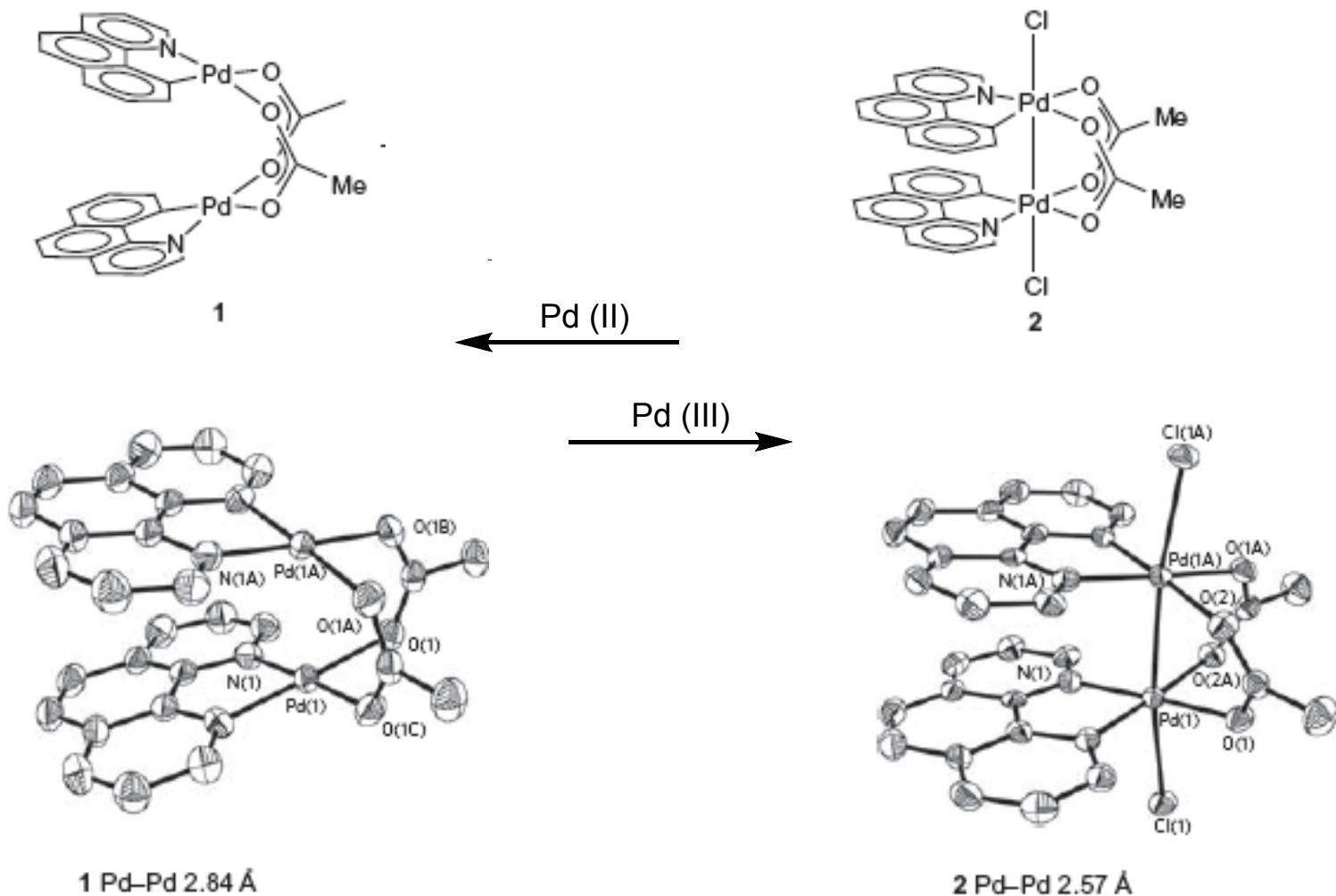
Palladium-Catalysed Carbon-Heteroatom Bond Formation



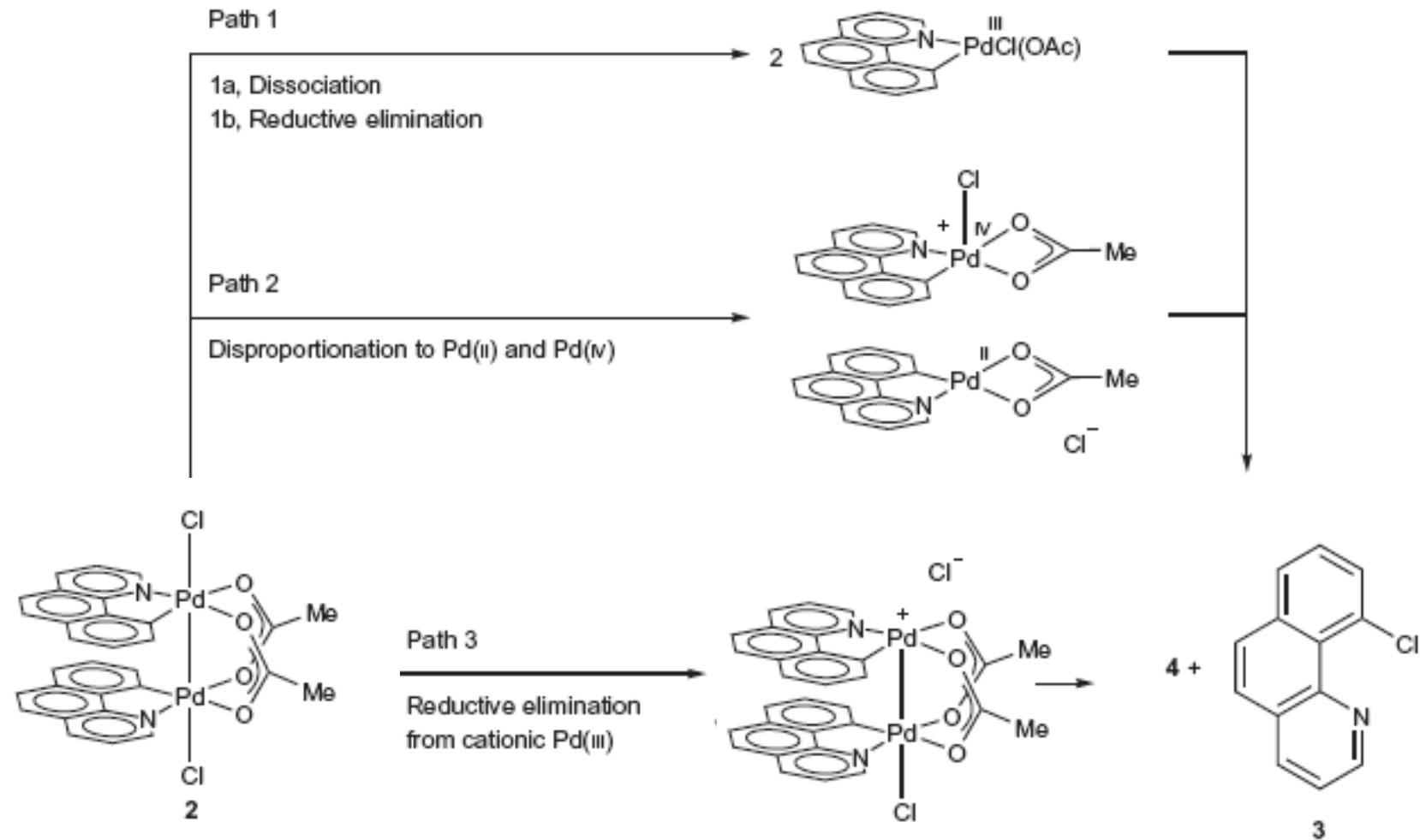
Pd(III)-Pd(III) Formation Followed by Bimetallic Reductive Elimination



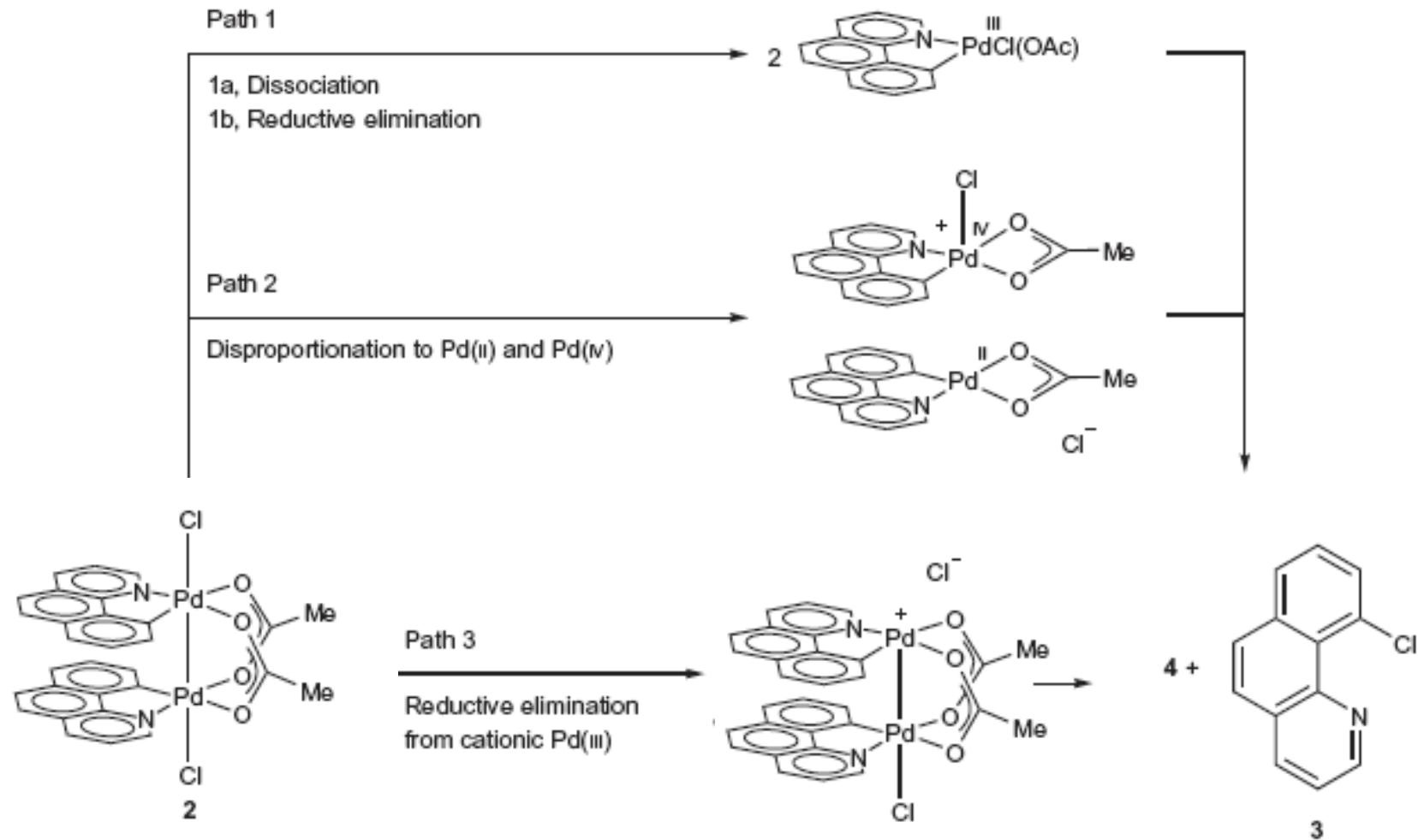
Bond Distances: Pd(II) vs Pd(III)



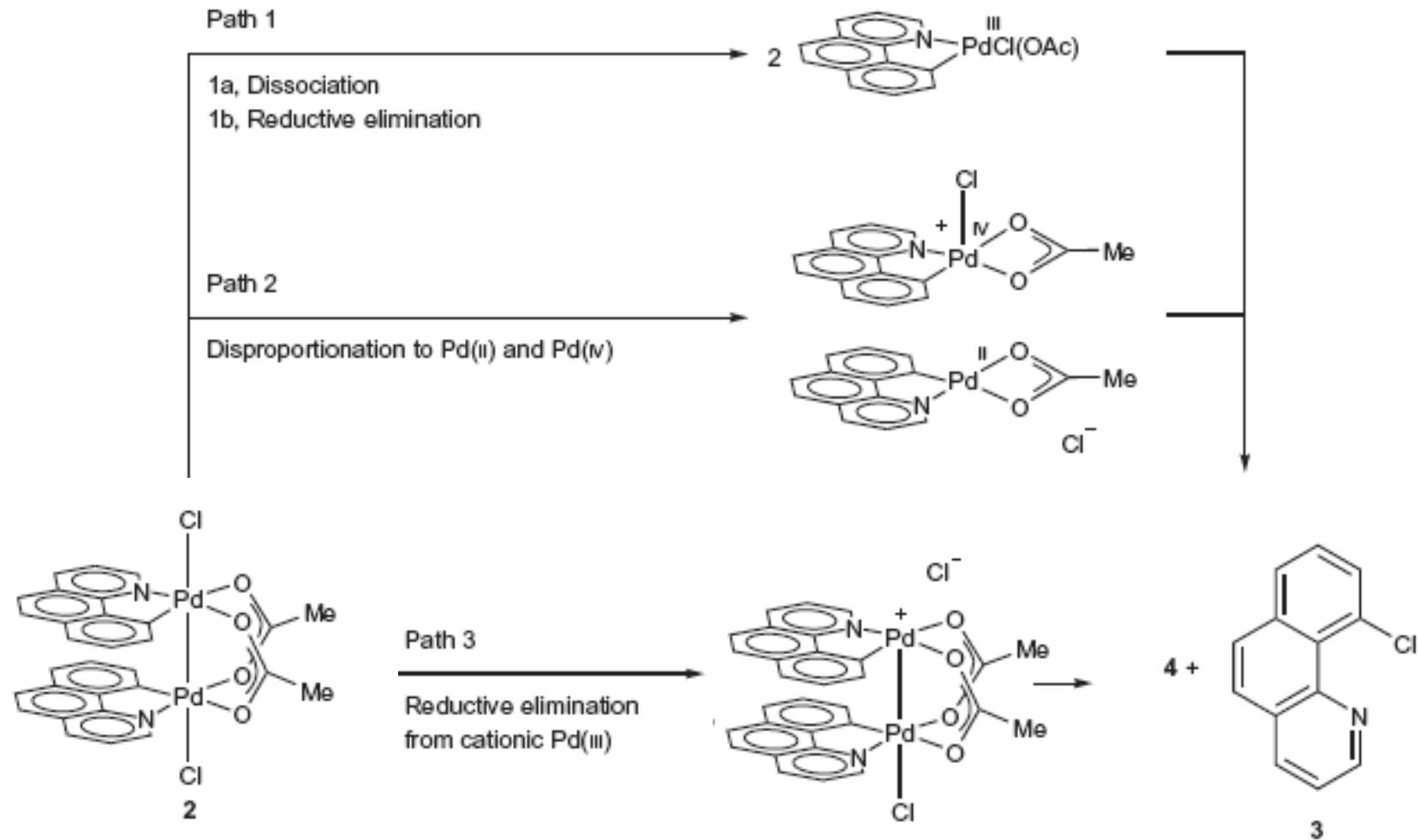
Mechanistic Study



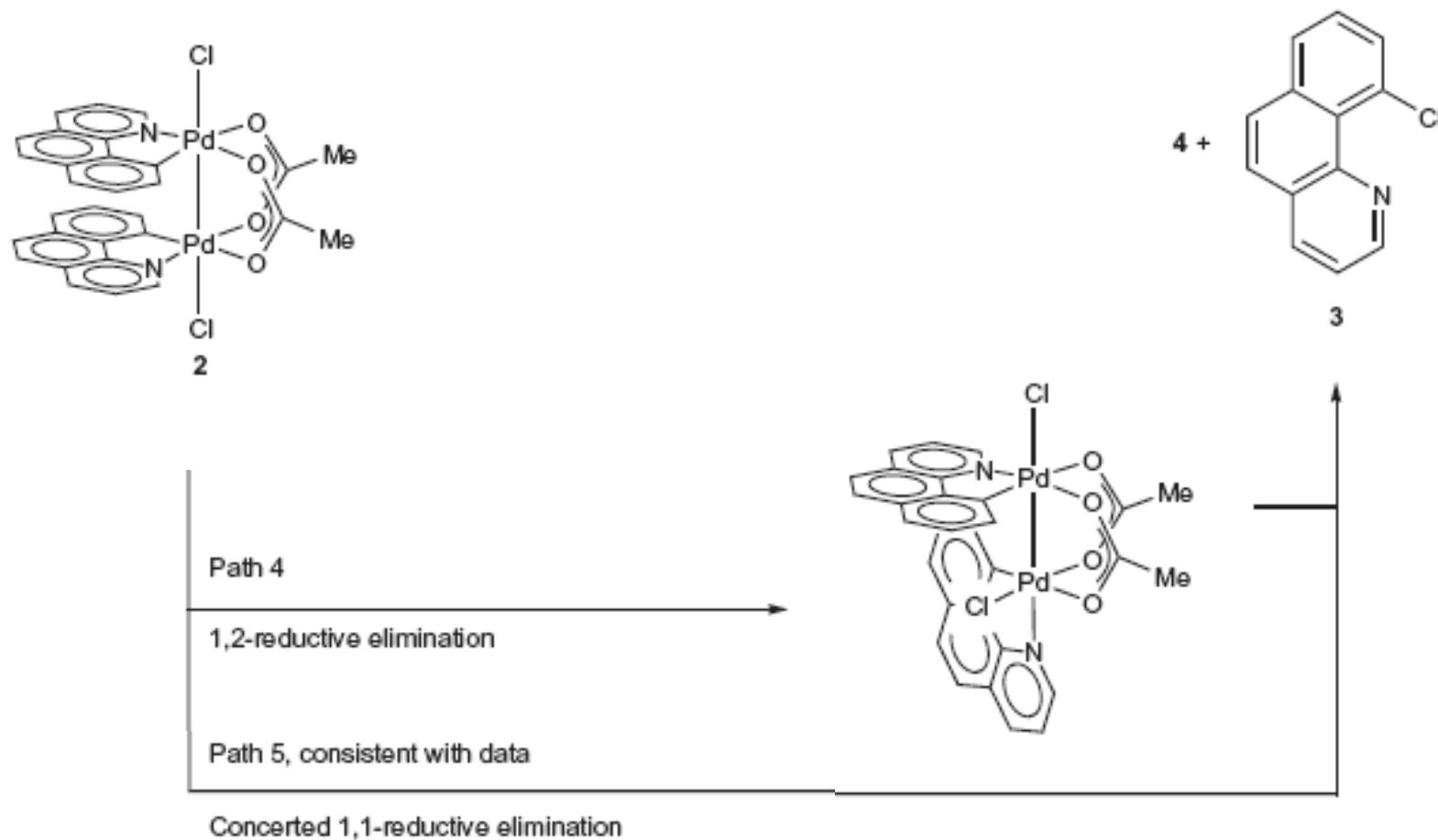
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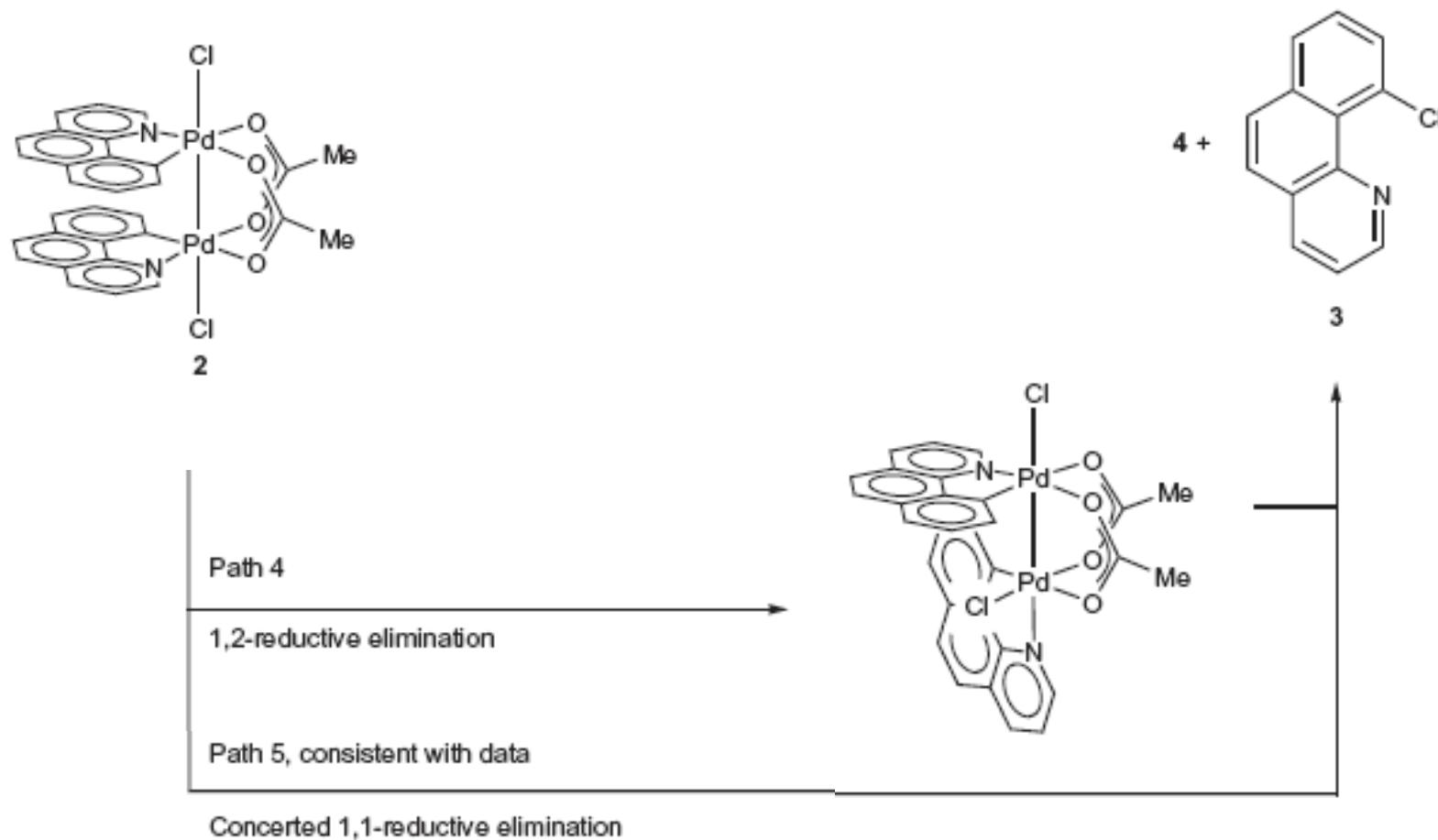
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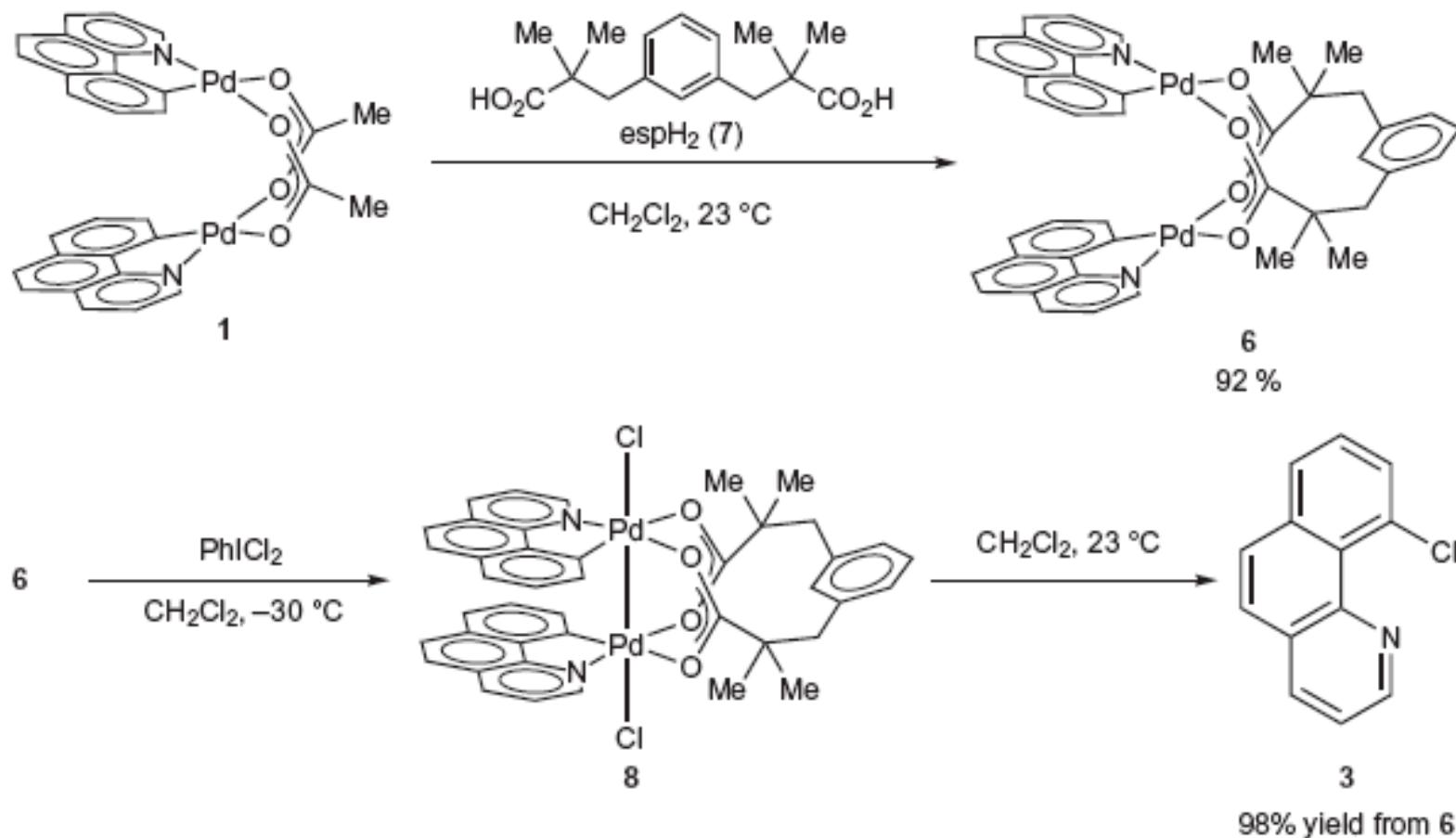
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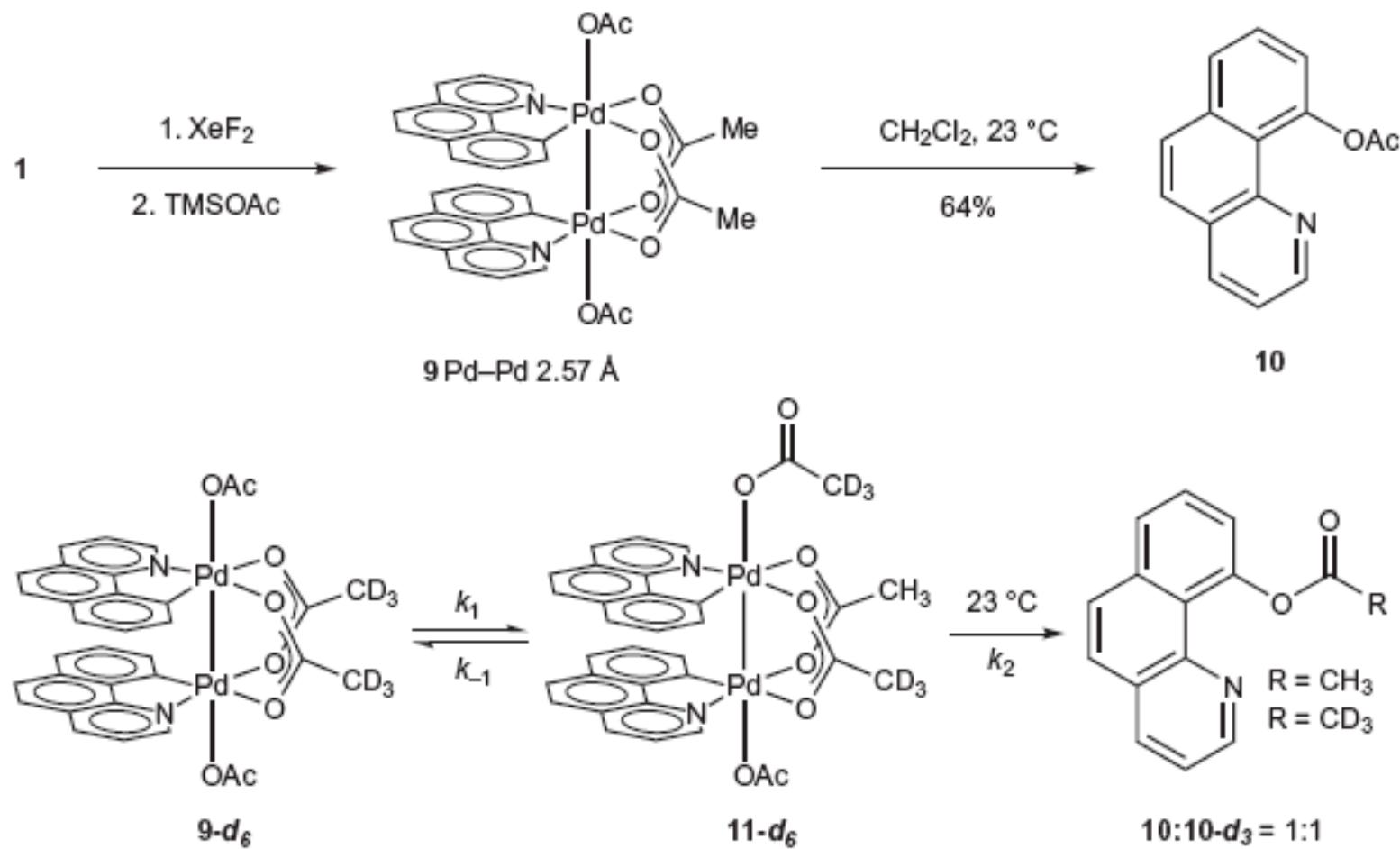
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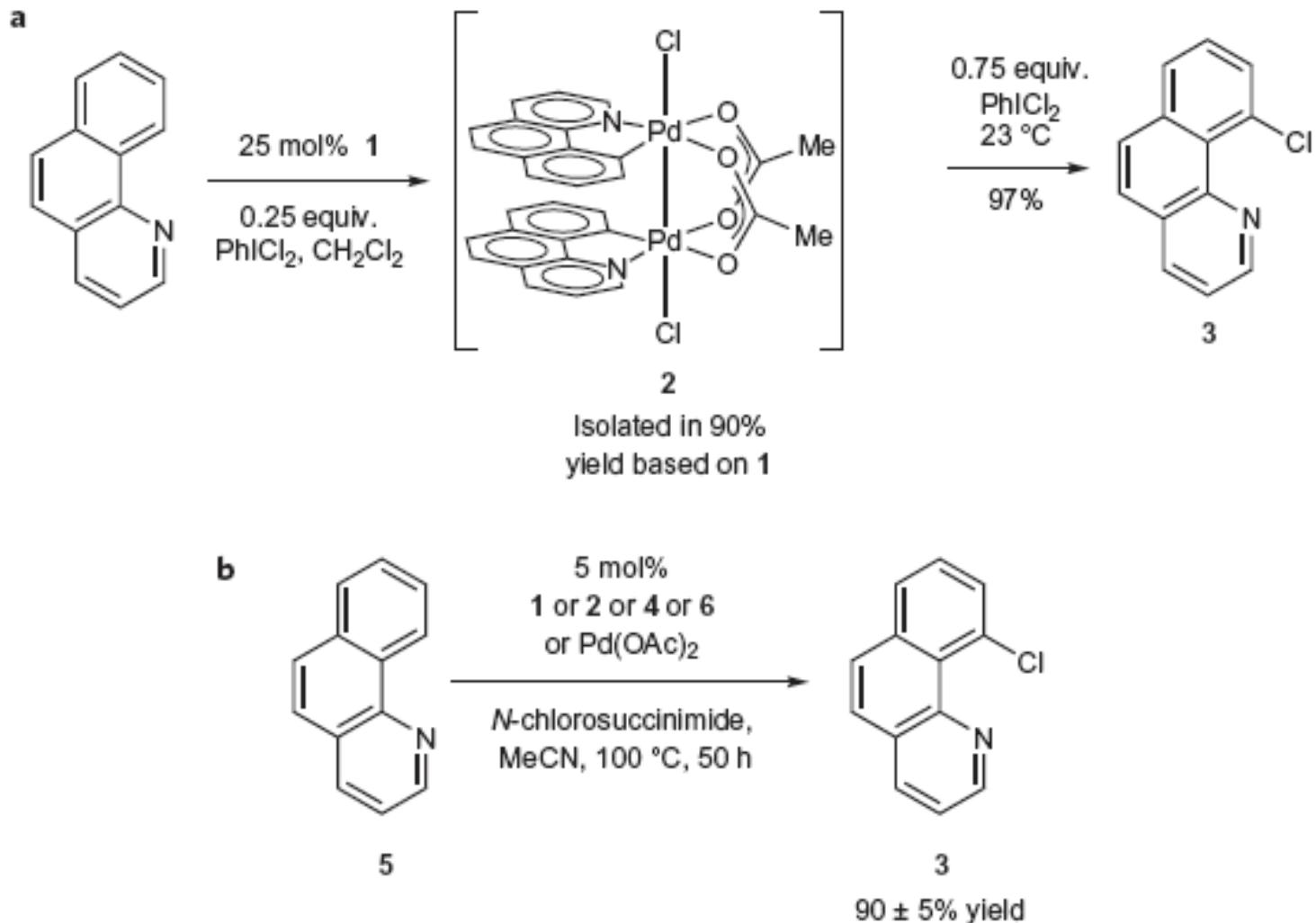
Bridging Acetate Ligand Replaced by Chelating Ligand



Deuterium Study



Palladium-Catalysed Reaction



Proposed Catalytic Cycle

