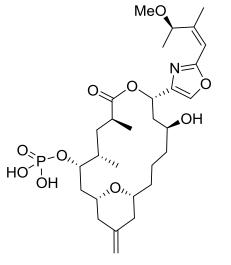
Concise Total Synthesis of Enigmazole A

Andreas Ahlers, Teresa de Haro, Barbara Gabor, and Alois Fuerstner

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Enigmazole A

Enigmazole A was isolated from a sponge of the genus Cinachyrella enigmata.

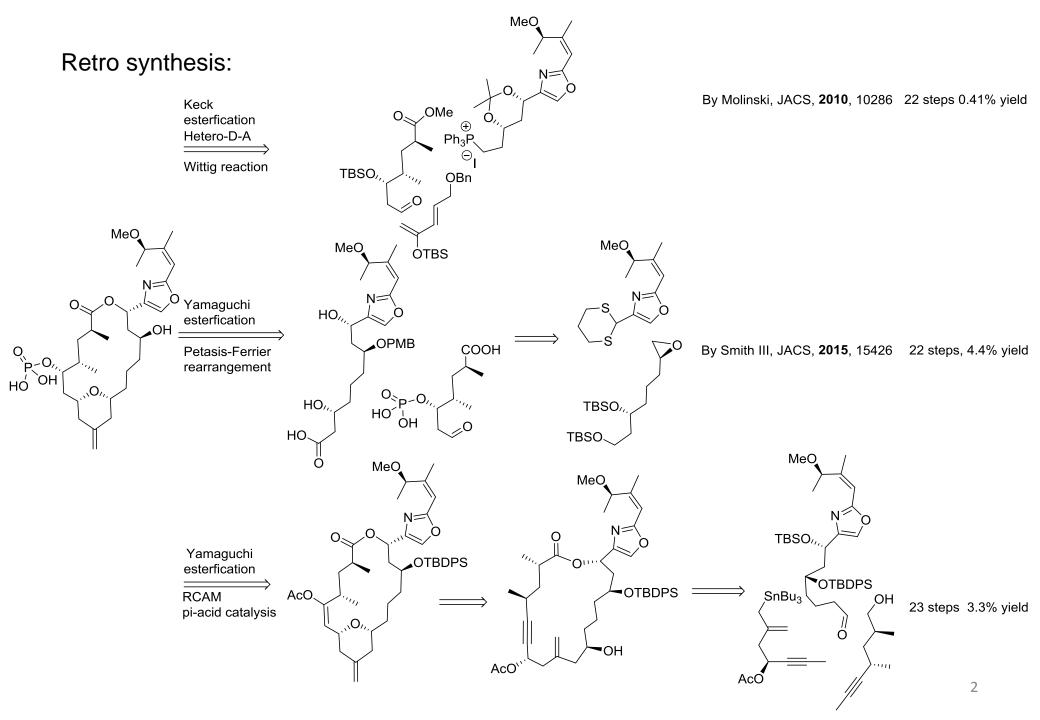
The first phosphorylated macrolides of marine origin but were reported to elicit an exceptionally rare phenotypic response in that they interfere with c-Kit signaling.

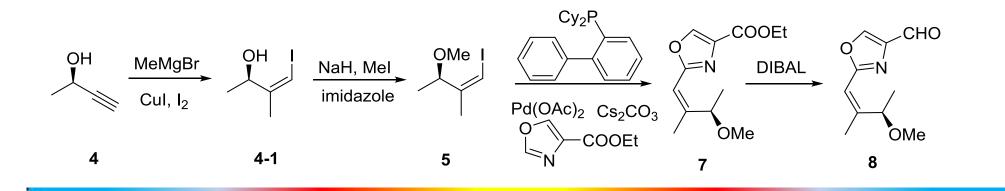
Eight stereogenic center exist.

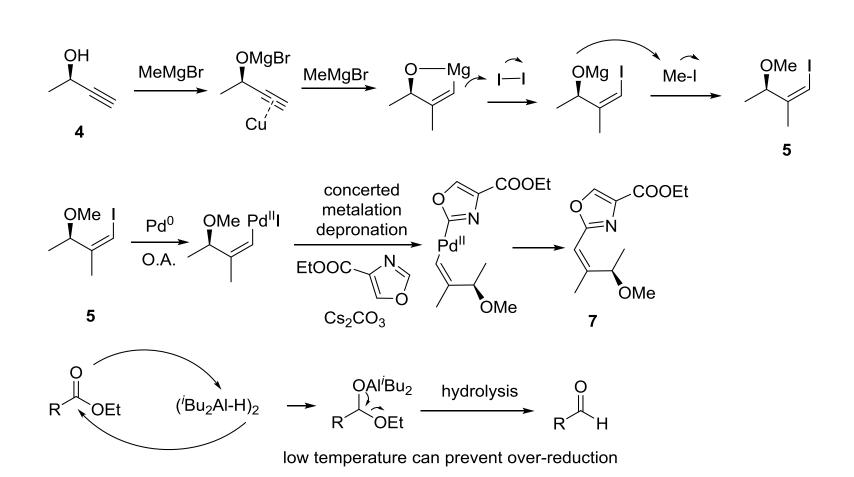


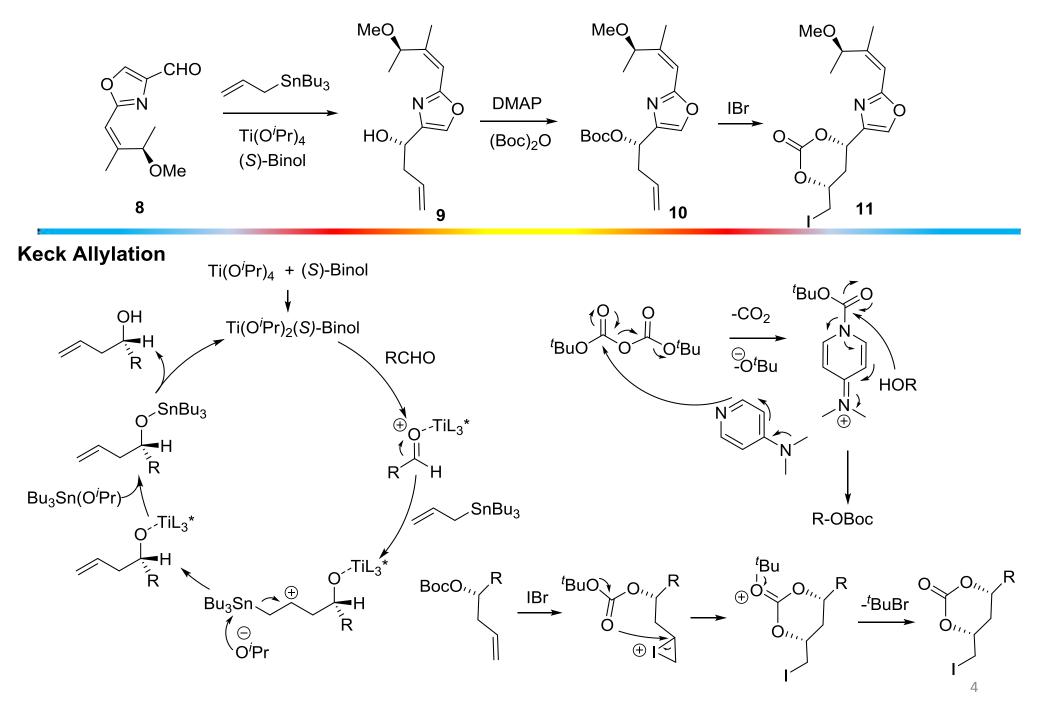


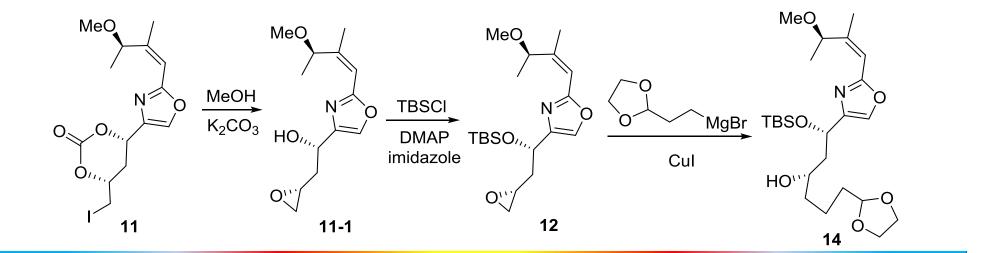
Presented by Yuanzhe Zhang, Liu group.

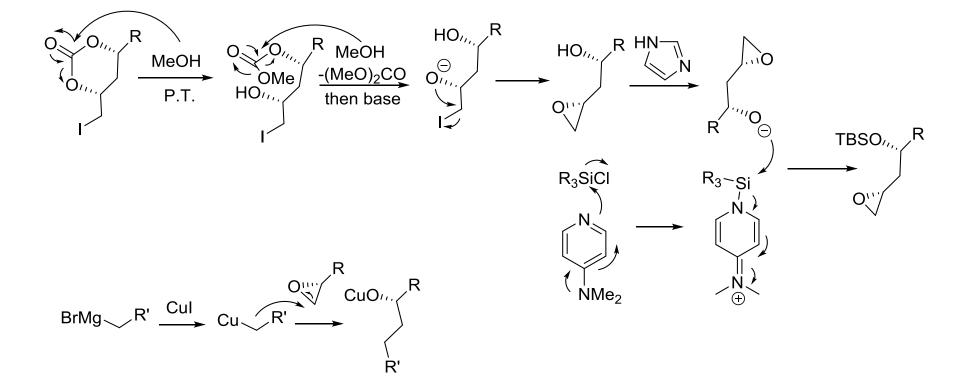


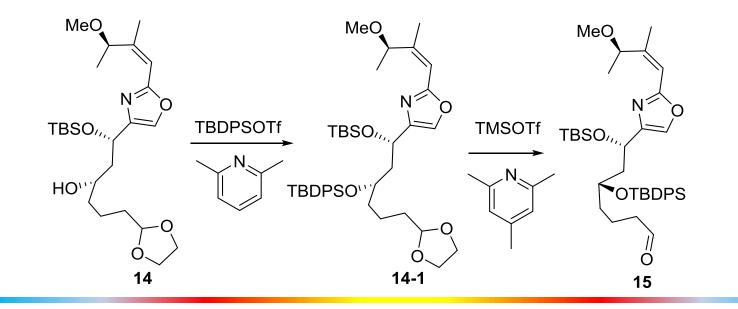


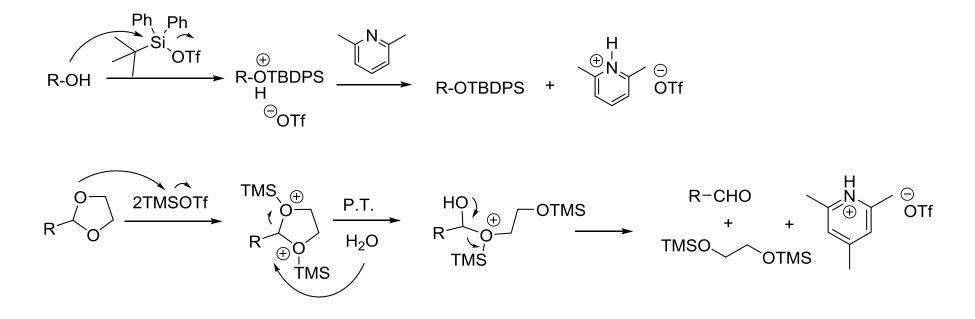


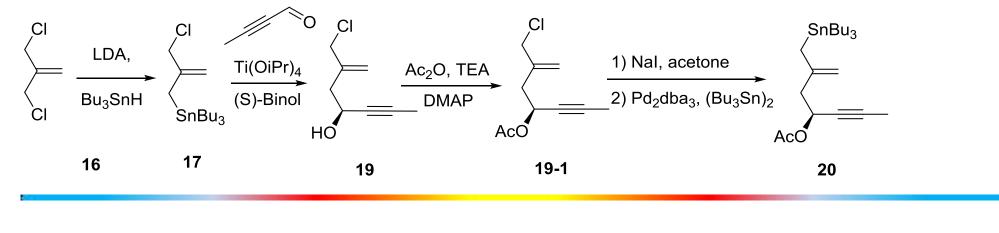


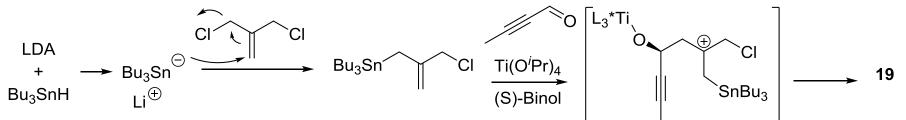




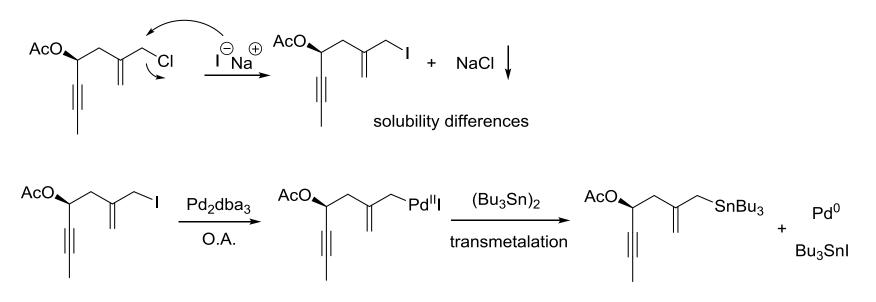


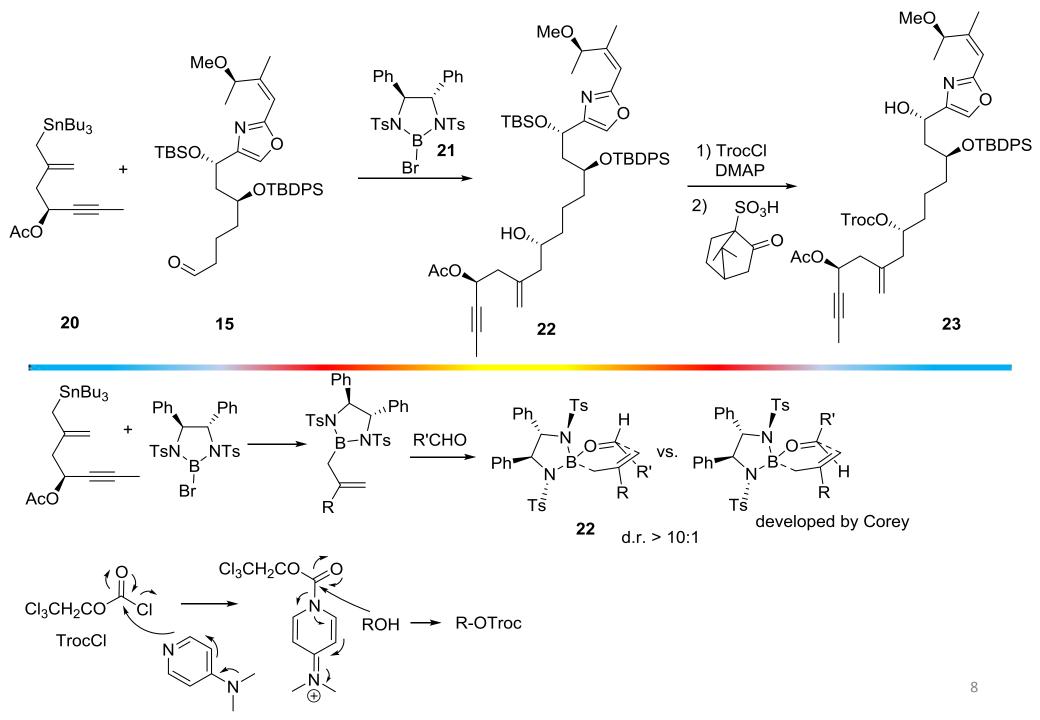


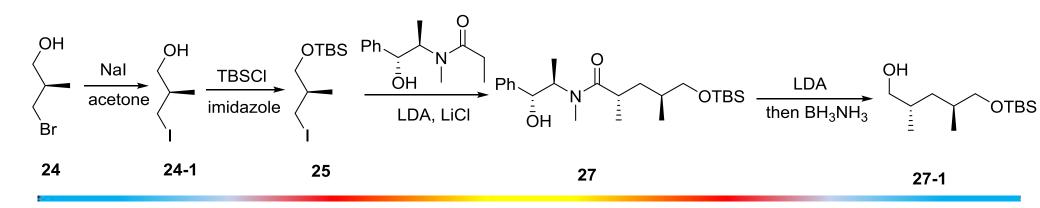


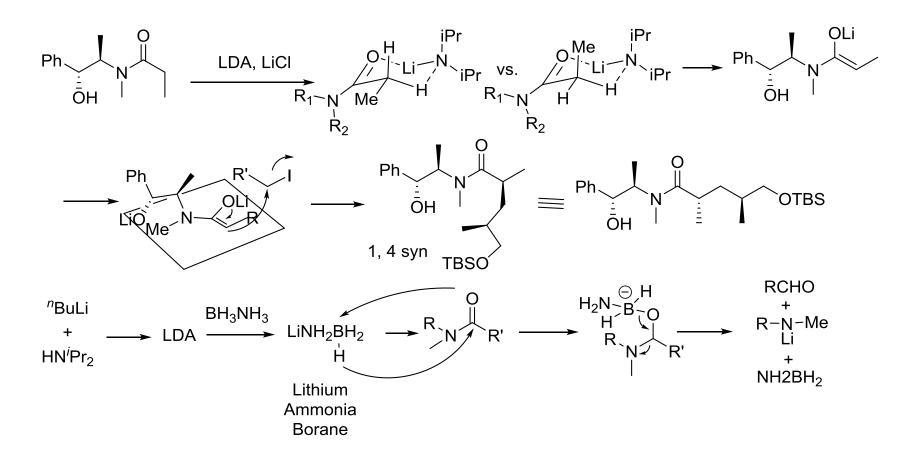


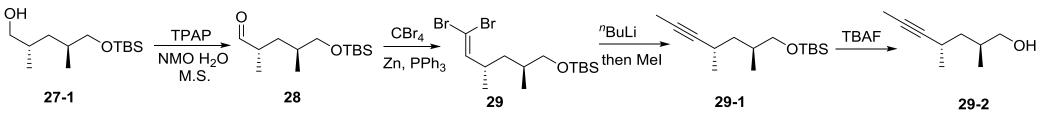
Finkelstein Reaction





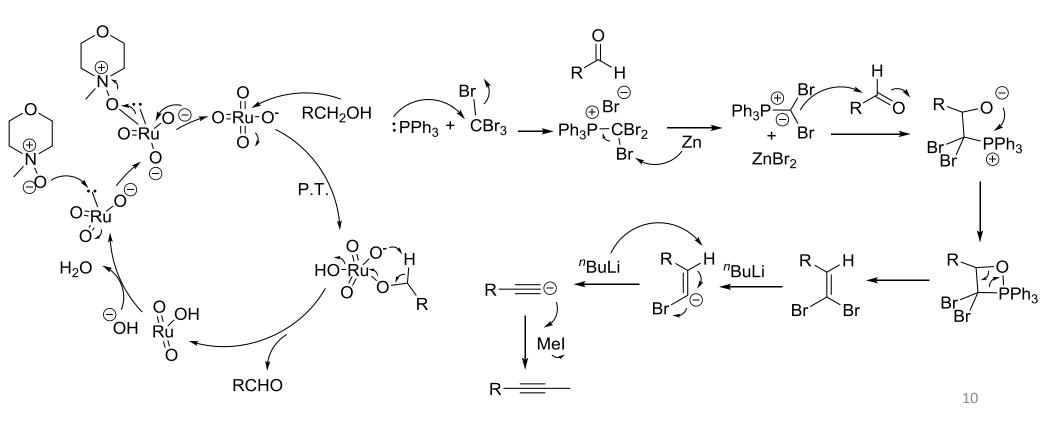


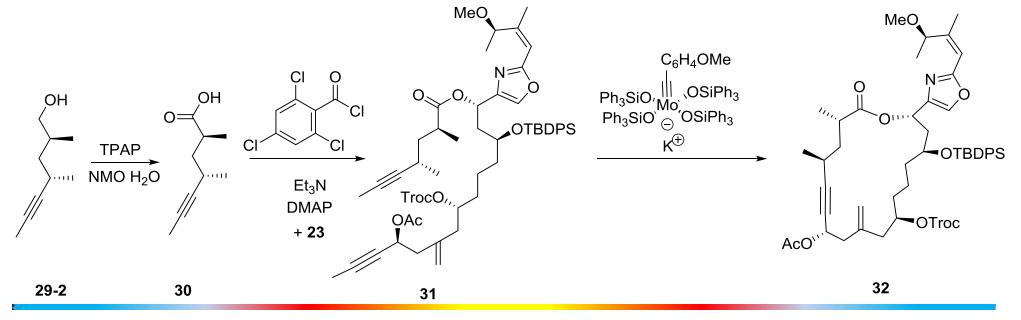




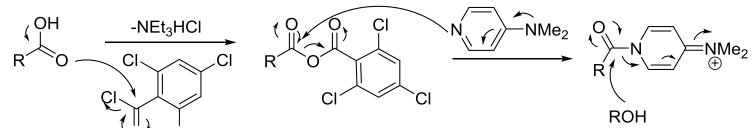
Ley Oxidation

Corey-Fuchs Reaction

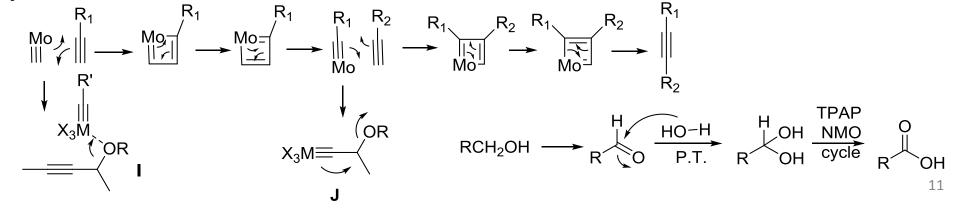


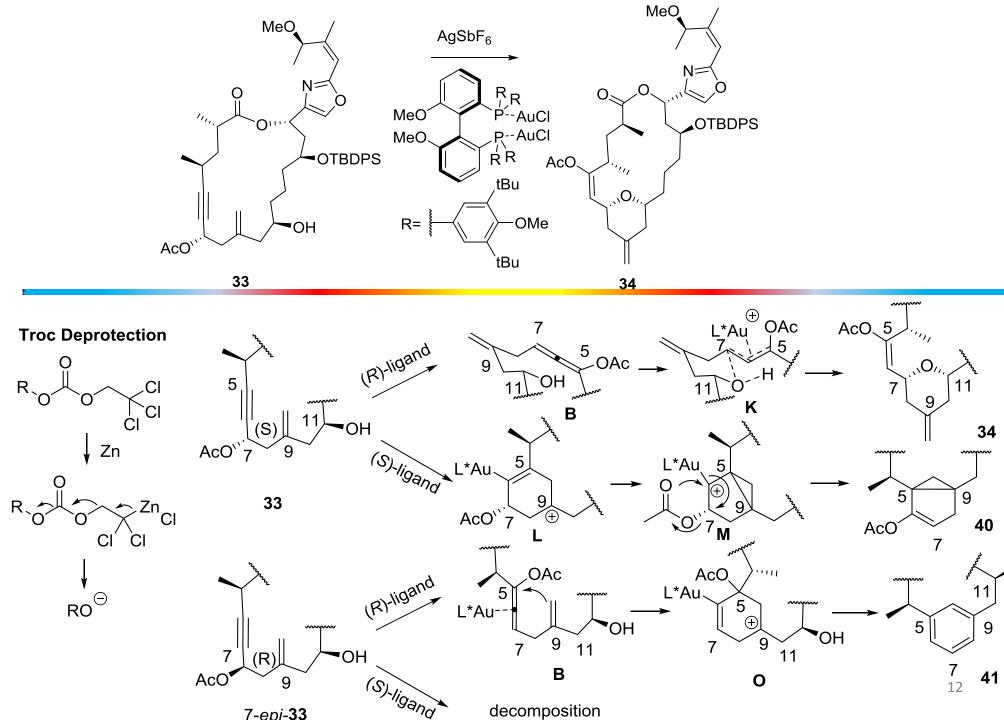


Yamaguchi esterification



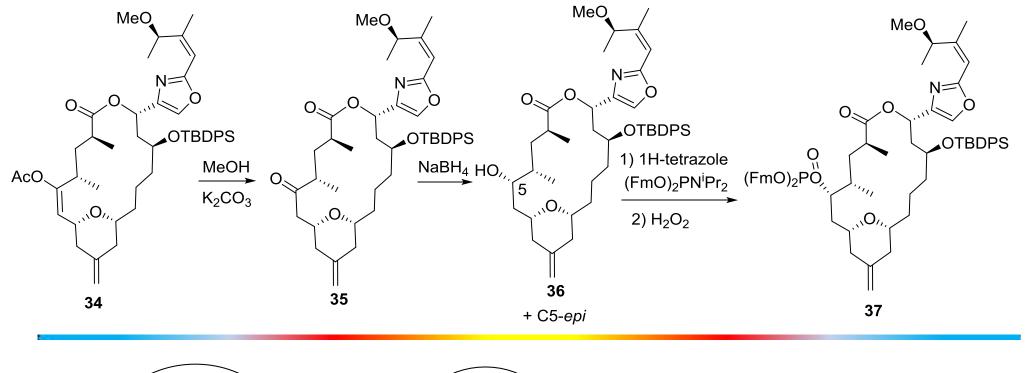
Alkyne Metathesis

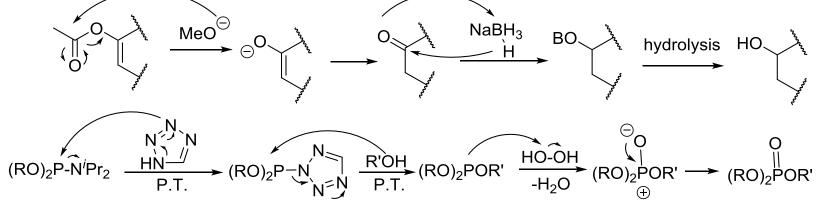


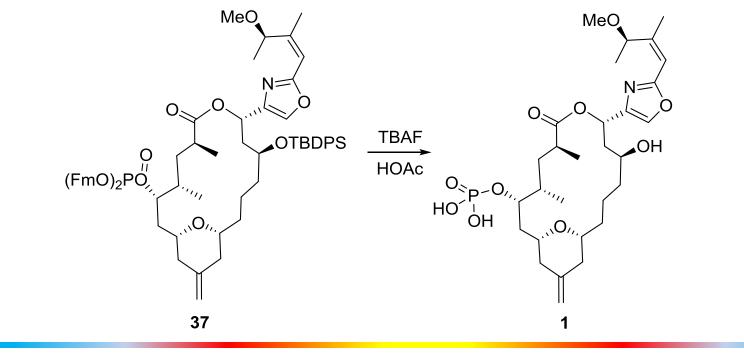


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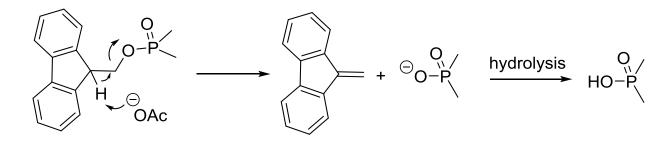
decomposition







Fmoc deprotectiom



Conclusion: 23 steps for the longest linear route, 3.3% overall yield.