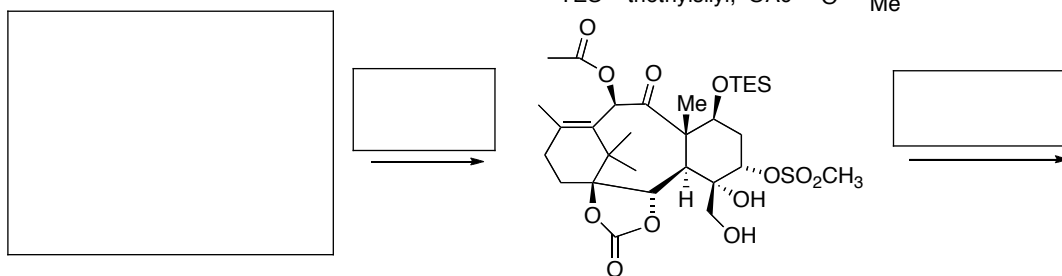
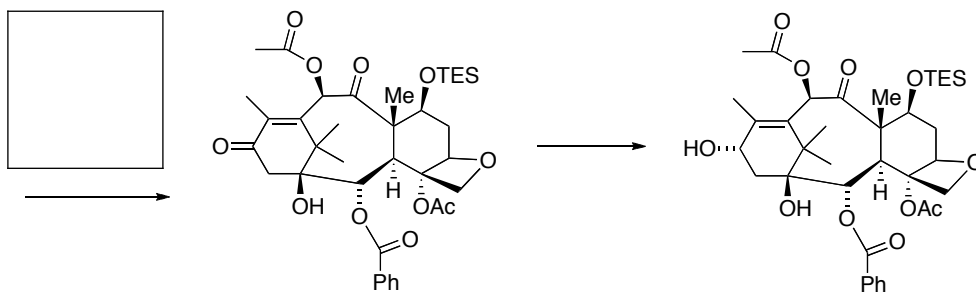
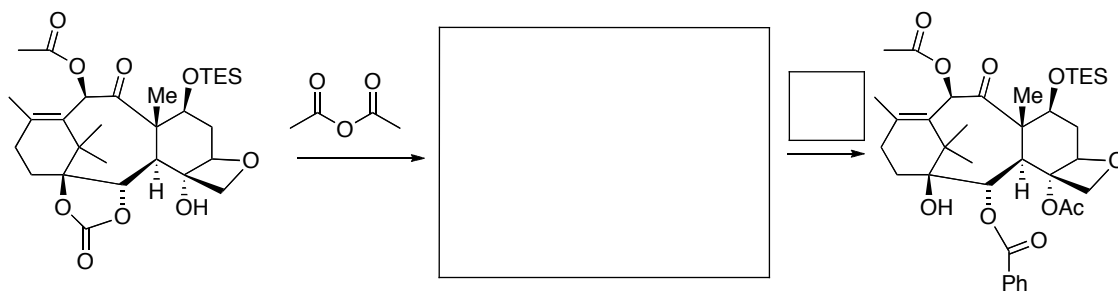
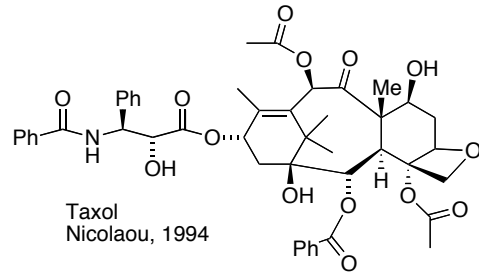
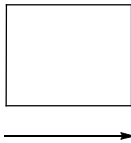
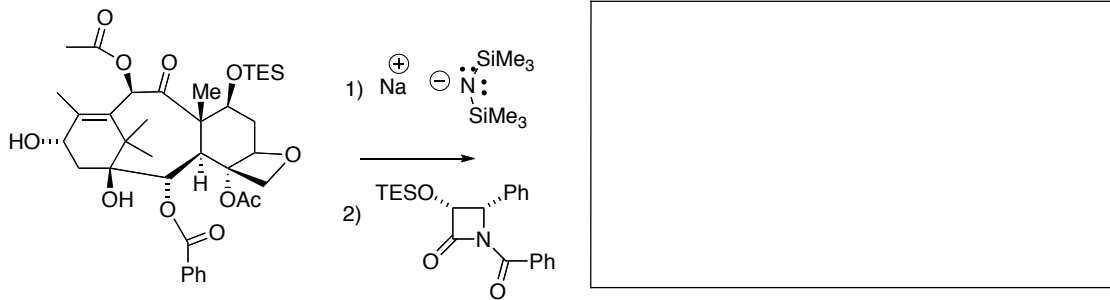


TES = triethylsilyl; OAc =



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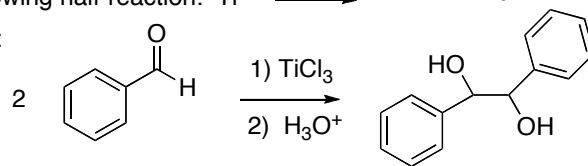




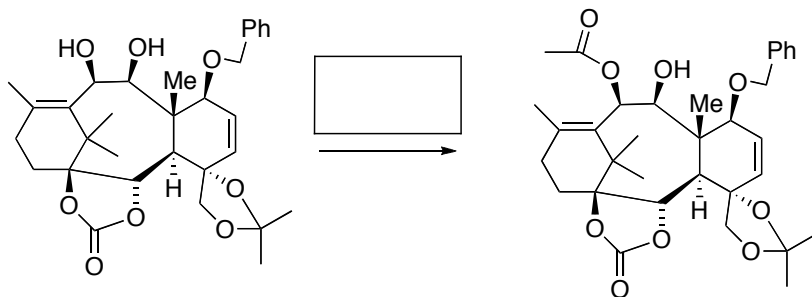
This yew tree bark product is an anti-cancer drug. Total synthesis was undertaken due to the rarity of Pacific Yew and the sensitivity of the spotted owl environment. These studies contributed to successful large-scale partial synthesis from yew needle extracts, providing enough material for clinical trials.

The McMurry reaction involves the following half-reaction:  $\text{Ti}^{3+} \longrightarrow \text{Ti}^{4+} + \text{e}^-$

Provide a mechanism for this reaction:



Why does reaction occur at one site and not another?



Why does reaction occur at one site and not another?

