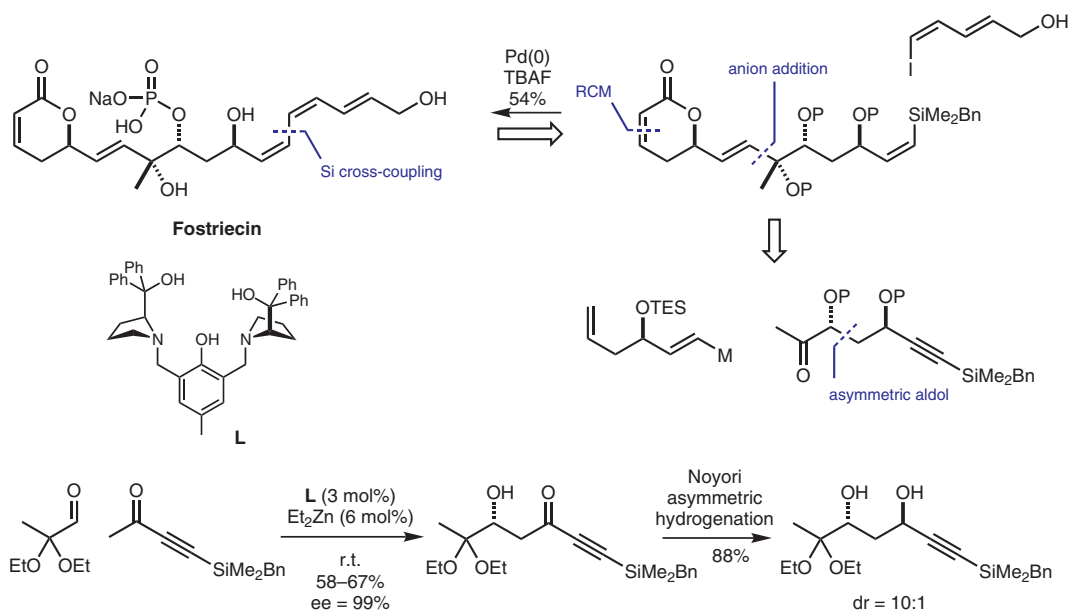


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Dinuclear Asymmetric Zn Aldol Additions: Formal Asymmetric Synthesis of Fostriecin  
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## Asymmetric Zn Aldol Additions: Asymmetric Synthesis of Fostriecin



**Significance:** Fostriecin is a metabolite of *Streptomyces pulveraceus*. It is a potent inhibitor of protein phosphatase 2A and it is cytotoxic towards leukemia and many other cell lines.

**Comment:** The two noteworthy steps in this short synthesis are (a) the large scale (49.6 mmol) direct asymmetric Zn-catalyzed aldol reaction illustrated and (b) a Pd-catalyzed alkenylsilane cross-coupling which installs the conjugated triene moiety. The synthesis was accomplished in 14 steps for the longest linear sequence and gave dephospho-fostriecin in 8.5% overall yield.

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