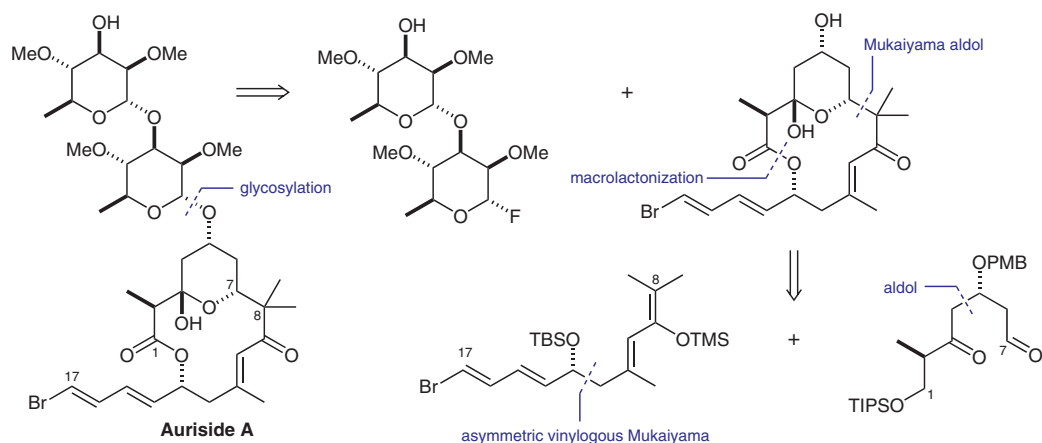


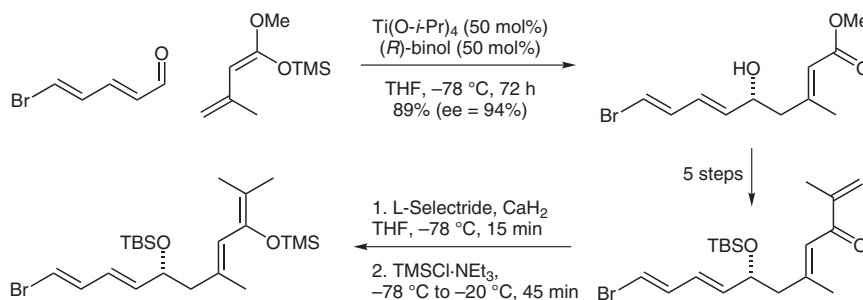
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Stereocontrolled Total Synthesis of (–)-Aurisides A and B
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Total Synthesis of (–)-Aurisides A and B



Synthesis of the C8–C17 fragment via an asymmetric vinylogous Mukaiyama aldol reaction:



Significance: The first synthesis of Aurisides A and B is reported. The Aurisides are isolated from the sea hare *Dolabella auricularia*. They are cytotoxic towards HeLa S₃ cervical cancer cell lines with IC₅₀ values of 0.17 and 1.2 $\mu\text{m mL}^{-1}$, respectively.

Comment: Variations on the aldol reaction were used to synthesize and link the C1–C7 and C8–C17 fragments of the aglycone. The asymmetric vinylogous Mukaiyama-directed aldol reaction mediated by an (R) -binol- $\text{Ti}(\text{O-}i\text{-Pr})_4$ species (89%, ee = 94%) is noteworthy.