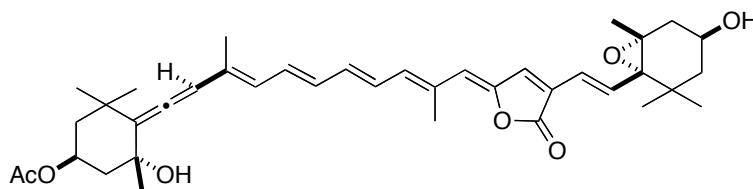


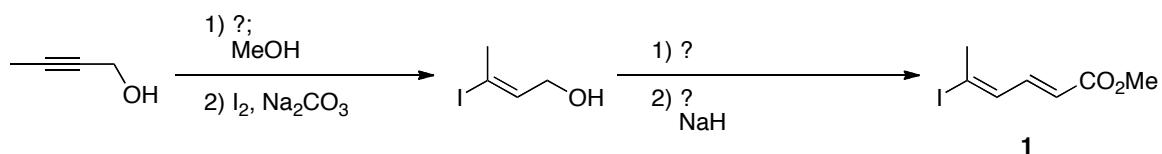
*nat*-Peridinin (171202-TKGP)

S. Katsumura<sup>1), 2)</sup>

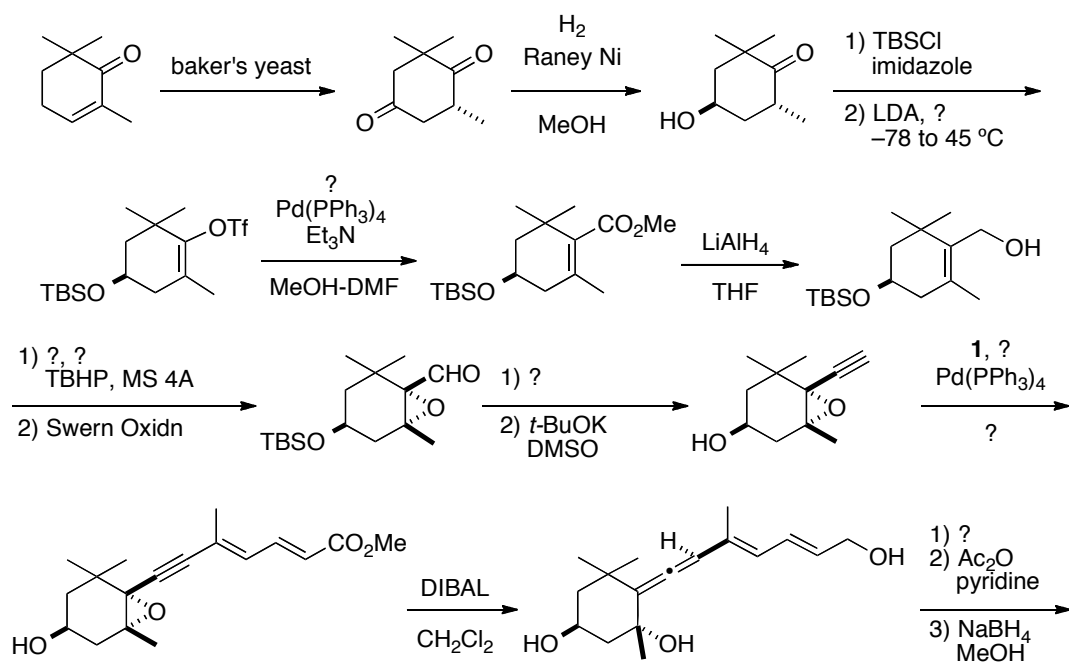


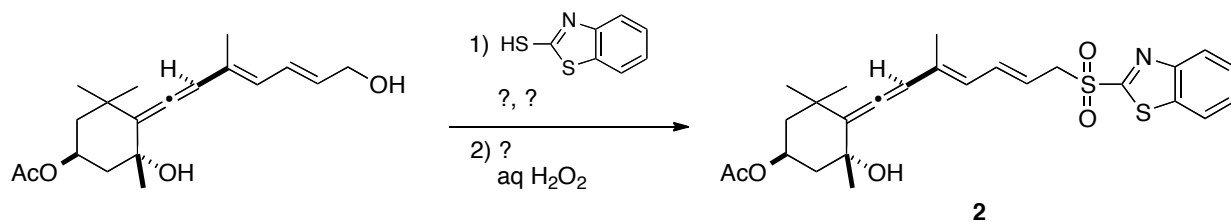
**Activity** Antenna pigment for photosynthesis (集光性補助色素)

**Key Reactions** (A) singlet oxygen oxidation of  $\alpha$ -silylfuran,  
(B) Pd-catalyzed one-pot ylidebutenolide formation,  
(C) modified Julia-Kocienski olefination

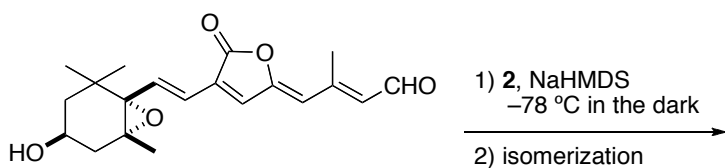
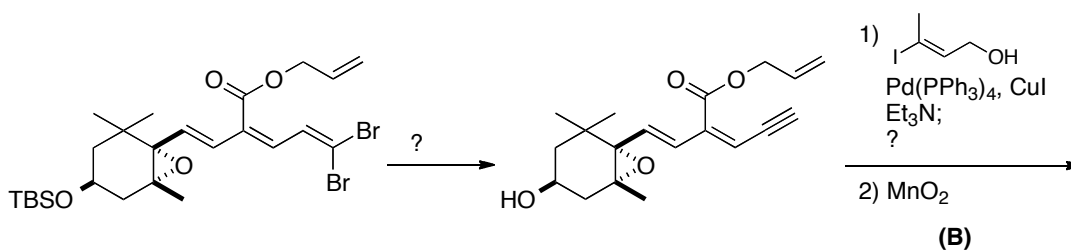
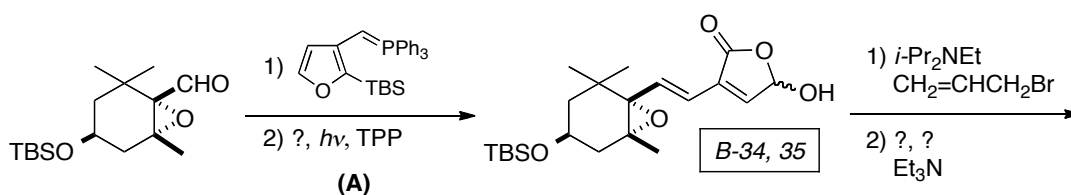


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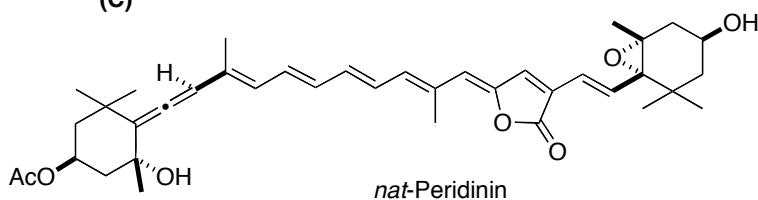




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**(C)**



**References:**

- 1) N. Furuichi, H. Hara, T. Osaki, H. Mori, S. Katsumura, *Angew. Chem., Int. Ed.*, **41**, 1023 (2002)
- 2) N. Furuichi, H. Hara, T. Osaki, M. Nakano, H. Mori, S. Katsumura, *J. Org. Chem.*, **69**, 7949 (2004)