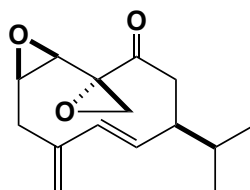


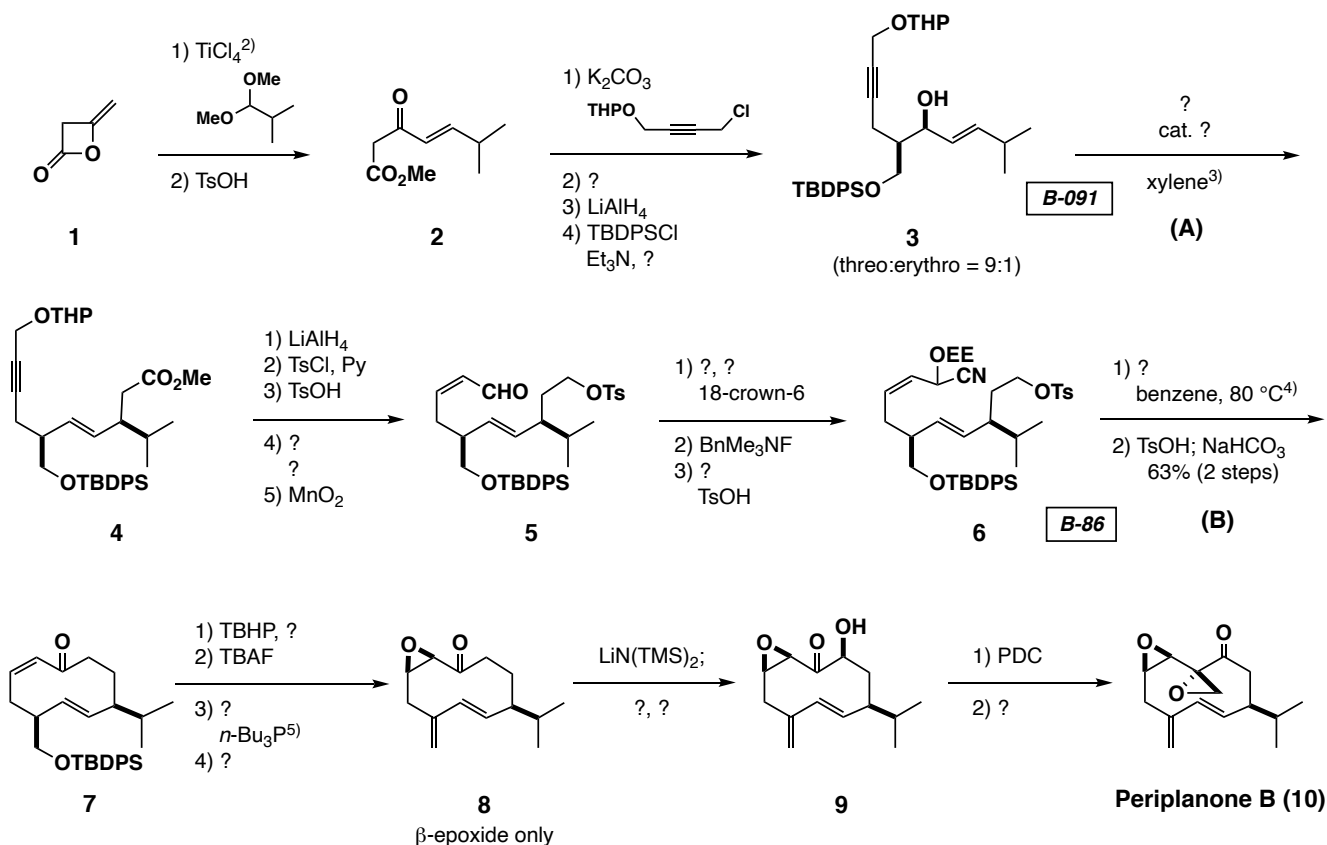
# (±)-Periplanone B (210213-2-TKGP)

Takashi Takahashi<sup>1)</sup>



Activities: Sex excitant pheromone of the American cockroach, *Periplaneta americana*

Key Reactions: A) Johnson-Claisen rearrangement  
B) Intramolecular alkylation using protected cyanohydrin



- References: 1) Takahashi, T.; Kanda, Y.; Nemoto, H.; Kitamura, K.; Tsuji, J.; Fukazawa, Y. *J. Org. Chem.* **1986**, *51*, 3393.  
2) Izawa, T.; Mukaiyama, T. *Chem. Lett.* **1974**, 1189.  
3) Johnson, W. S.; Werthemann, L.; Bartlett, W. R.; Brocksom, T. J.; Li, T.-T. *J. Am. Chem. Soc.* **1970**, *92*, 741.  
4) Takahashi, T.; Nagashima, T.; Tsuji, J. *Tetrahedron Lett.* **1981**, *22*, 1359.  
5) Grieco, P. A.; Gilman, S.; Nishizawa, M. *J. Org. Chem.* **1976**, *41*, 1485.  
6) Wasserman, H. H.; Lipshutz, B. H. *Tetrahedron Lett.* **1975**, 1731.  
7) Corey, E. J.; Chaykovsky, M. *J. Am. Chem. Soc.* **1965**, *87*, 1353.