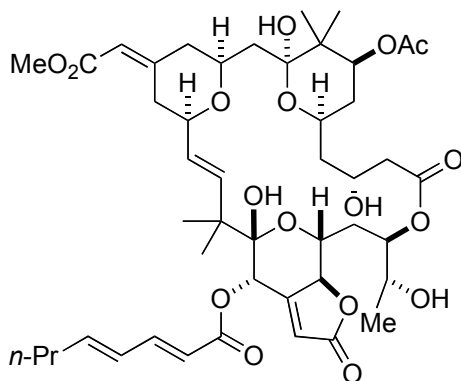


(+)-Bryostatin 3 (091114-TKGP)

S. Yamamura, S. Nishiyama¹⁾⁻⁵⁾

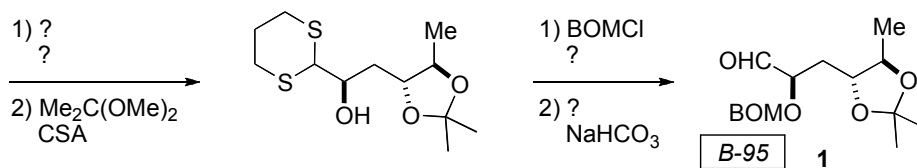
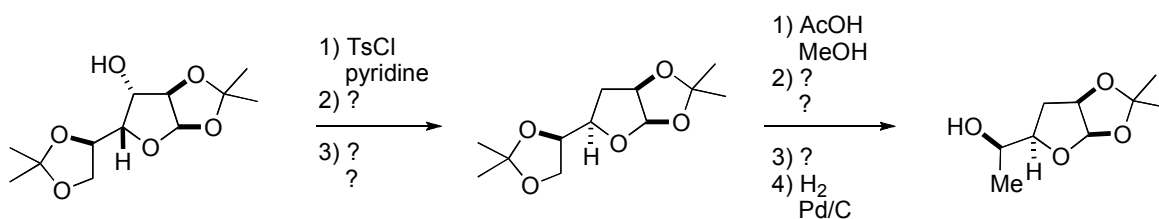


Activity

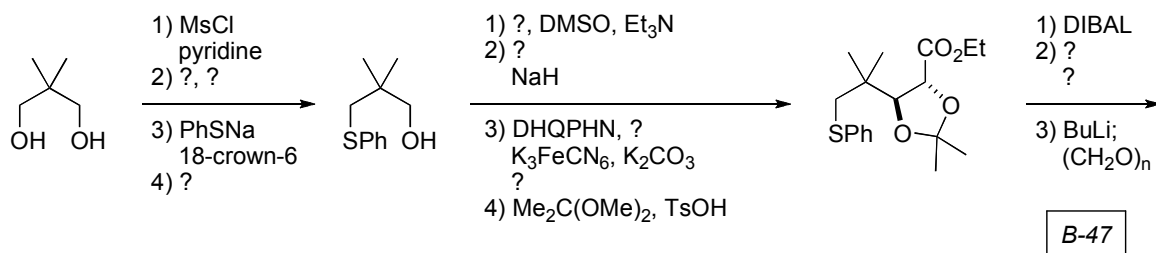
Antineoplastic (抗腫瘍活性), Activation of PKC (PKC 活性化)

Key Reactions

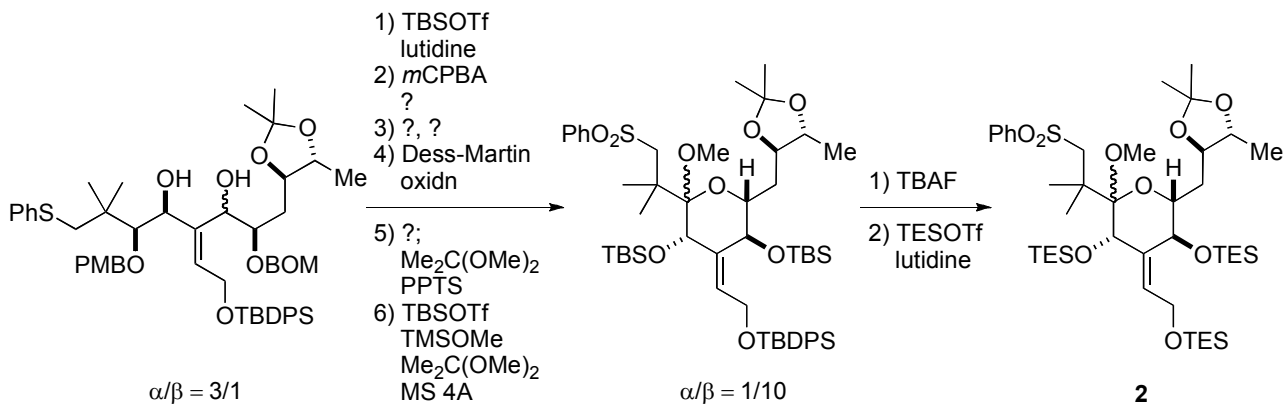
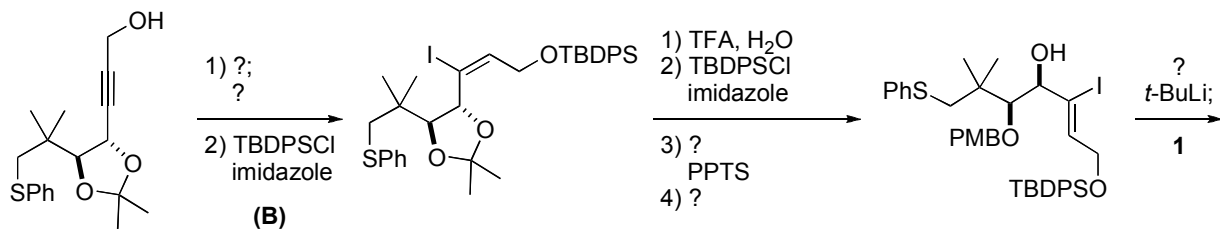
(A) asymmetric dihydroxylation, (B) hydroiodination, (C) chiral enolate, (D) Julia-Lythgoe olefination, (E) removal of allyl ester, (F) Yamaguchi lactonization, (G) selective Horner-Wadsworth-Emmons reaction



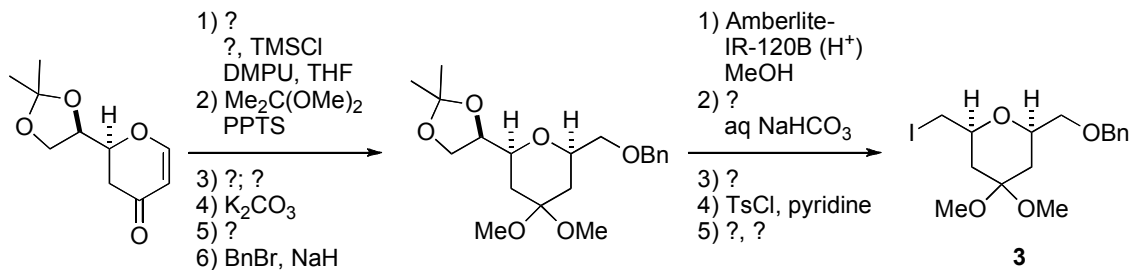
###



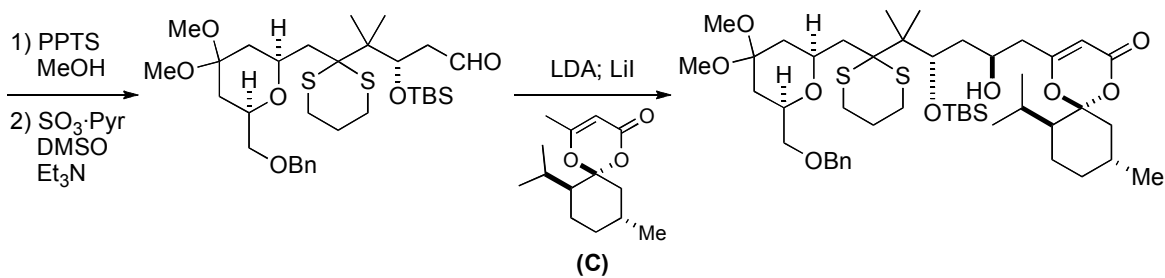
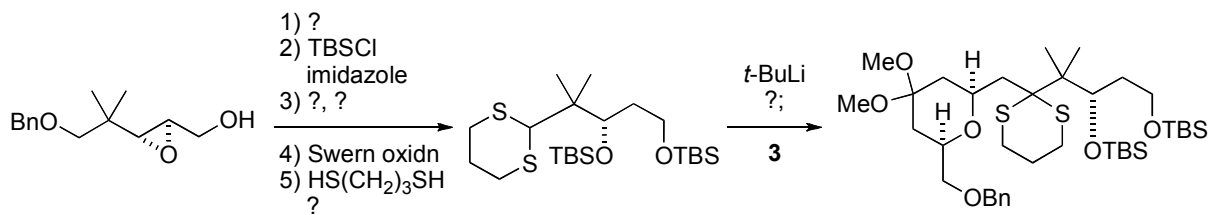
(A)

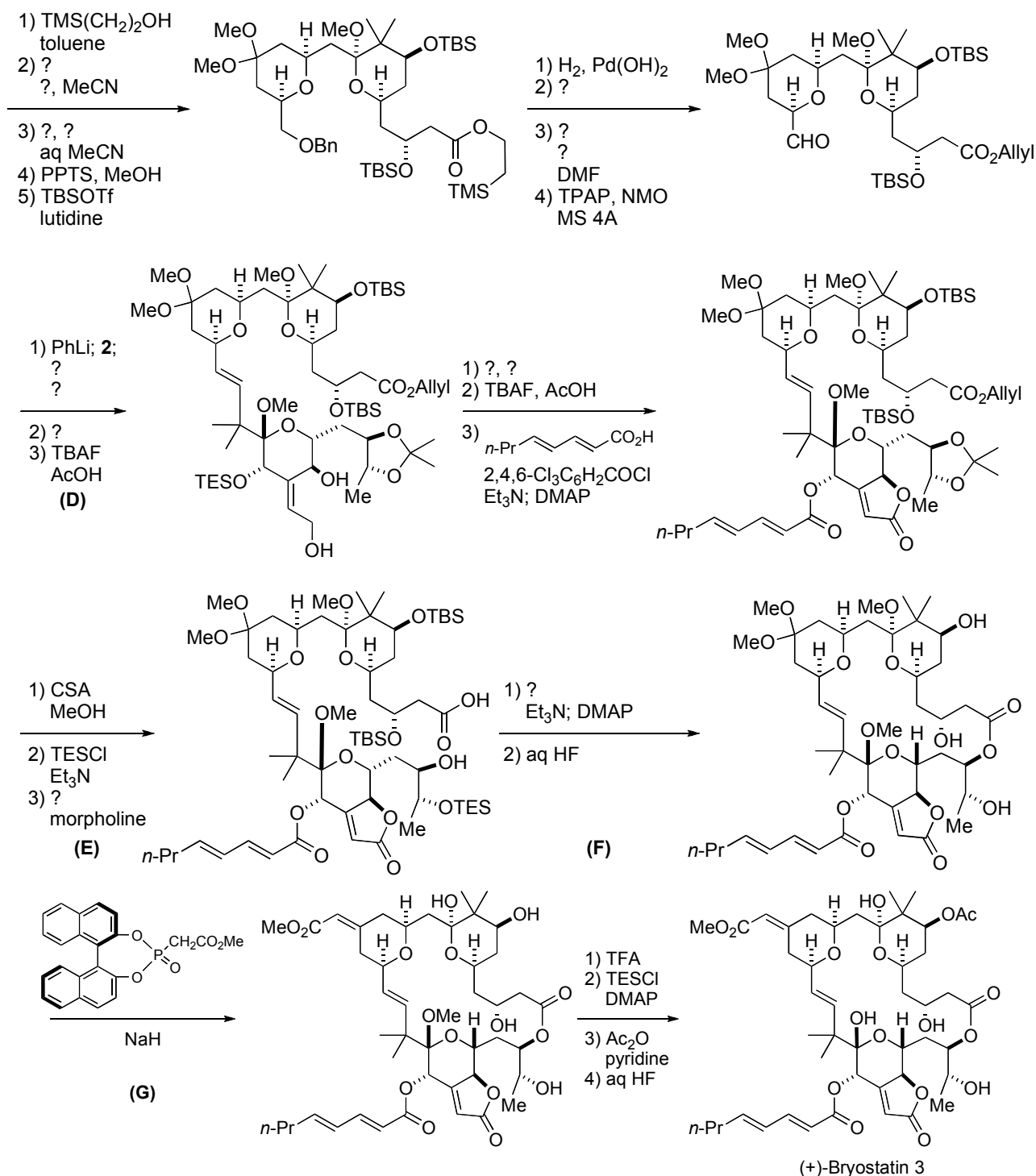


###



###





References:

- 1) K. Ohmori, Y. Ogawa, T. Obitsu, Y. Ishikawa, S. Nishiyama, S. Yamamura, *Angew. Chem., Int. Ed.*, **39**, 2290 (2000)
- 2) K. Ohmori, T. Suzuki, K. Miyazawa, S. Nishiyama, S. Yamamura, *Tetrahedron Lett.*, **34**, 4981 (1993)
- 3) K. Ohmori, T. Suzuki, S. Nishiyama, S. Yamamura, *Tetrahedron Lett.*, **36**, 6515 (1995)
- 4) K. Ohmori, S. Nishiyama, S. Yamamura, *Tetrahedron Lett.*, **36**, 6519 (1995)
- 5) T. Obitsu, K. Ohmori, Y. Ogawa, H. Hosomi, S. Ohba, S. Nishiyama, S. Yamamura, *Tetrahedron Lett.*, **39**, 7349 (1998)