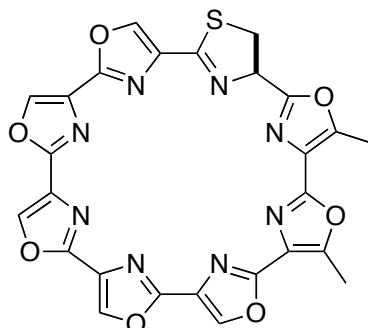


(-)-Telomestatin (150801-TKGP)

T. Doi, T. Takahashi¹⁾

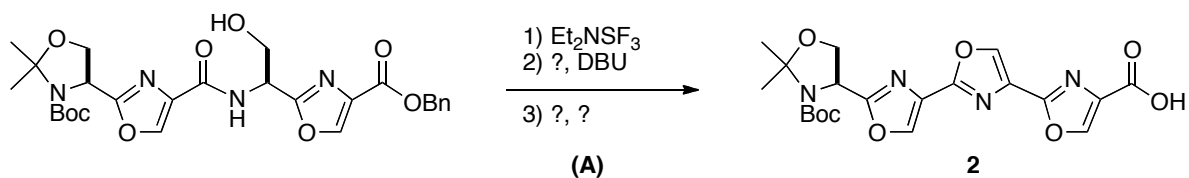
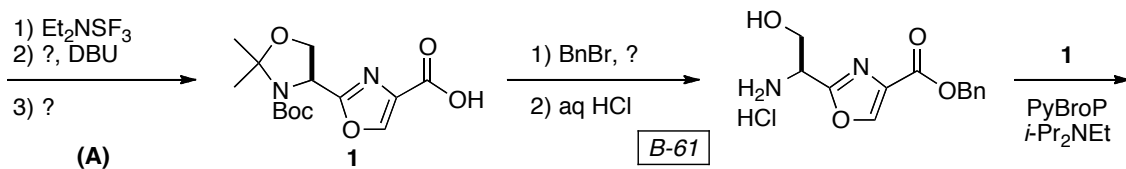
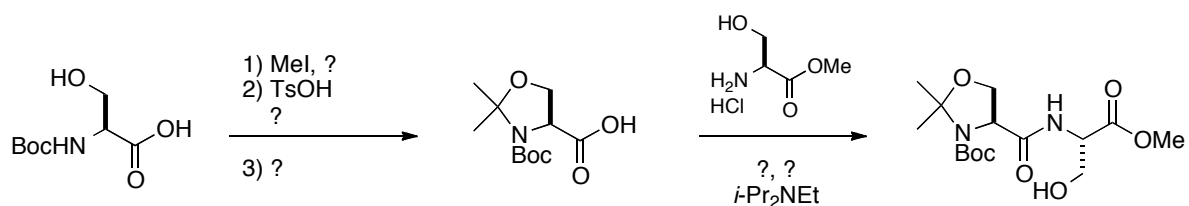


Activity

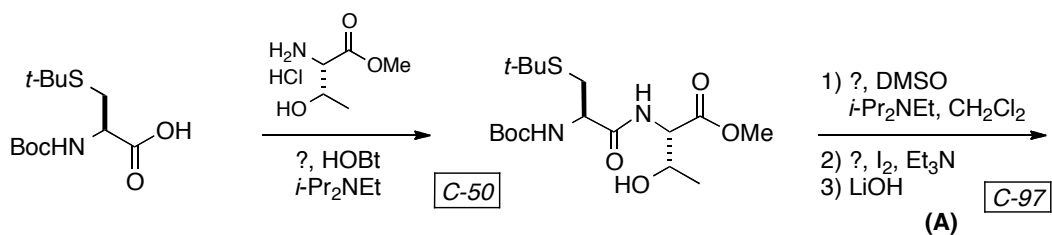
Telomerase inhibitor (テロメラーゼ阻害剤)

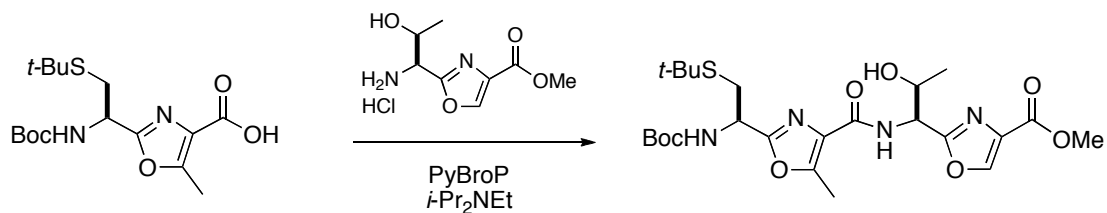
Key Reactions

(A) oxazole formation, (B) macrolactamization, (C) oxazoline formation, (D) thiazoline formation



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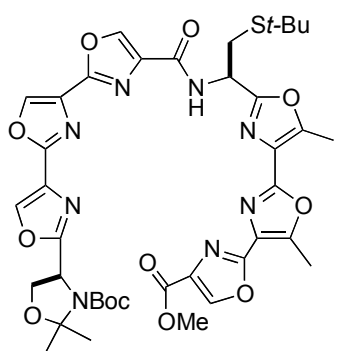
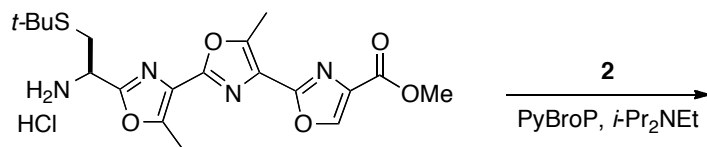




1) Burgess reagent
 2) ?, DBU
 3) aq HCl

(A)

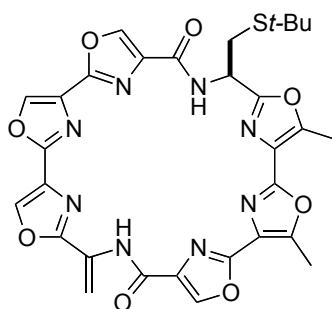
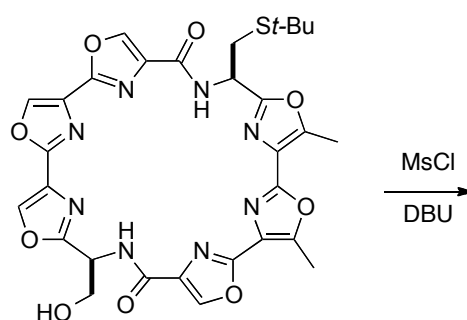
B-64



(B)

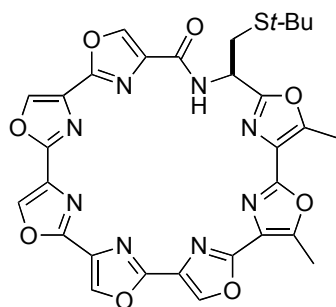
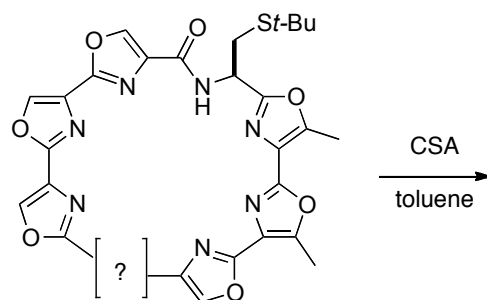
C-22

1) aq HCl
 2) LiOH
 3) DPPA, ?
 DMAP, *i*-Pr₂NEt



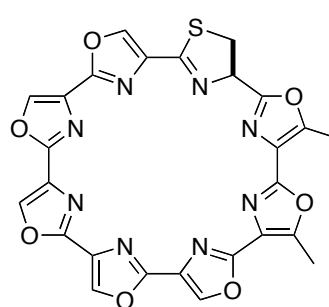
(C)

1) NBS
 CH₂Cl₂-MeOH
 2) K₂CO₃
 dioxane



(D)

Ph₃PO·Tf₂O
 anisole
 CH₂Cl₂



(-)-Telomestatin

Reference:

- 1) T. Doi, M. Yoshida, K. Shin-ya, T. Takahashi, *Org. Lett.*, **8**, 4165 (2006)