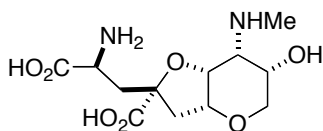


(-)-Dysiherbaine (TKGP-180922)

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



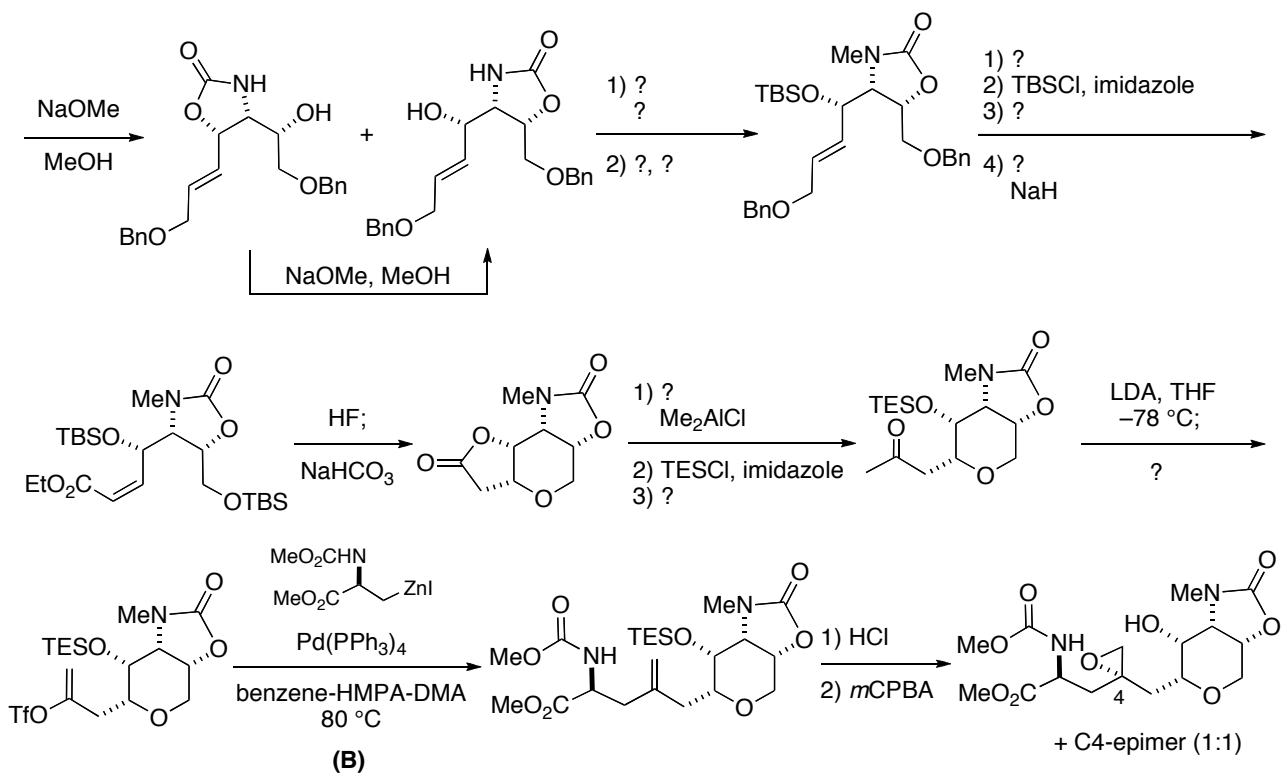
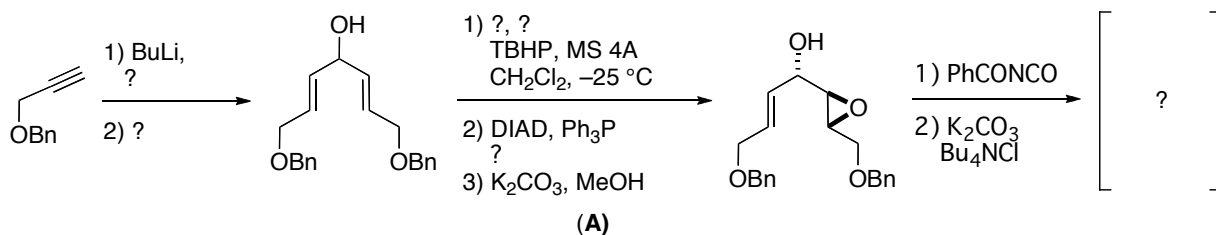
Activity

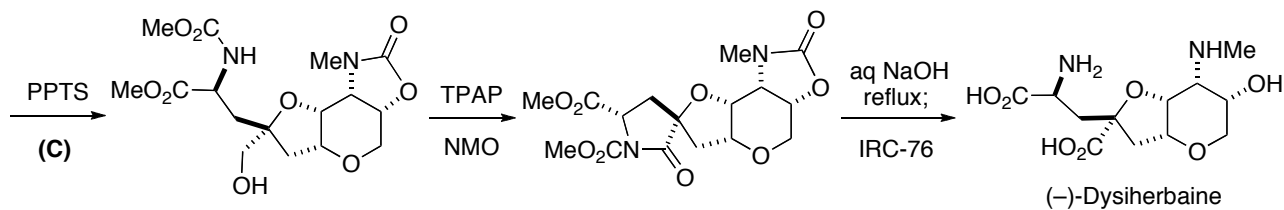
Glutamate receptor agonist (グルタミン酸受容体アゴニスト)

Key Reactions

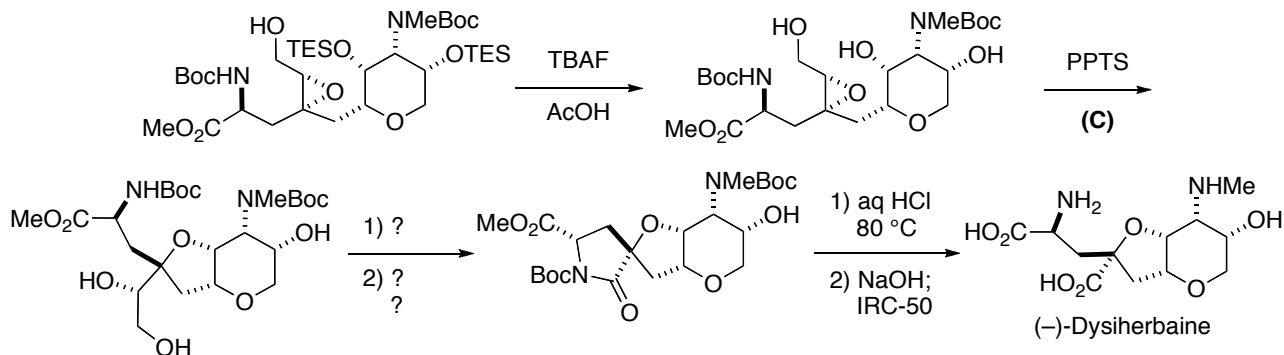
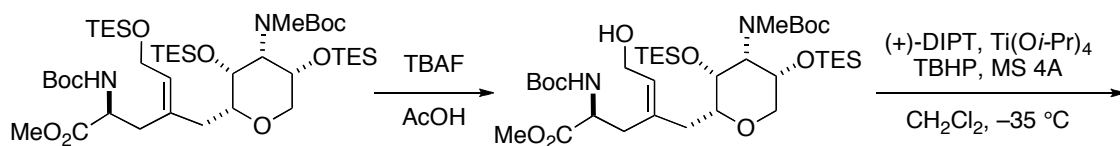
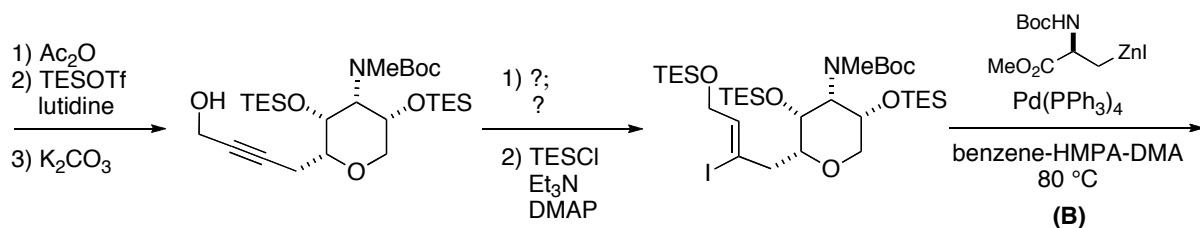
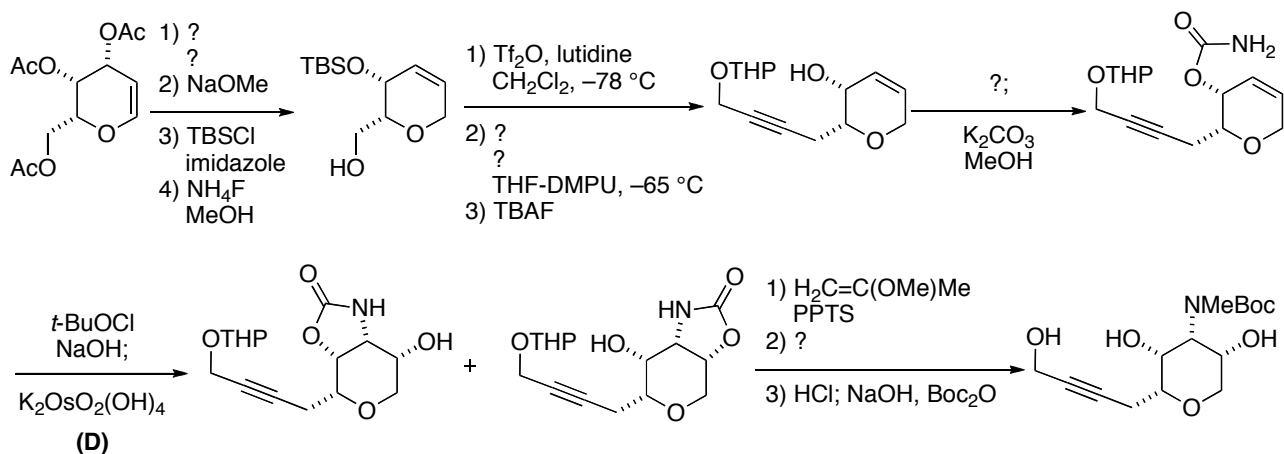
(A) desymmetrization using Katsuki-Sharpless asymmetric epoxidation,  
 (B) cross-coupling using a serine-derived organozinc reagent,  
 (C) 5-*exo-tet* cyclization, (D) intramolecular aminohydroxylation

—1<sup>st</sup> approach—<sup>1)</sup>





—2<sup>nd</sup> approach—2)



#### References:

- 1) H. Masaki, J. Maeyama, K. Kamada, T. Esumi, Y. Iwabuchi, S. Hatakeyama, *J. Am. Chem. Soc.*, **122**, 5216 (2000)
- 2) K. Takahashi, T. Matsumura, J. Ishihara, S. Hatakeyama, *Chem. Commun.*, 4158 (2007)