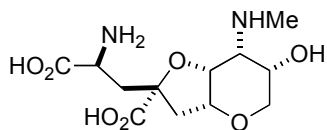


(-)-Dysiherbaine (TKGP-091003)

S. Hatakeyama^{1), 2)}



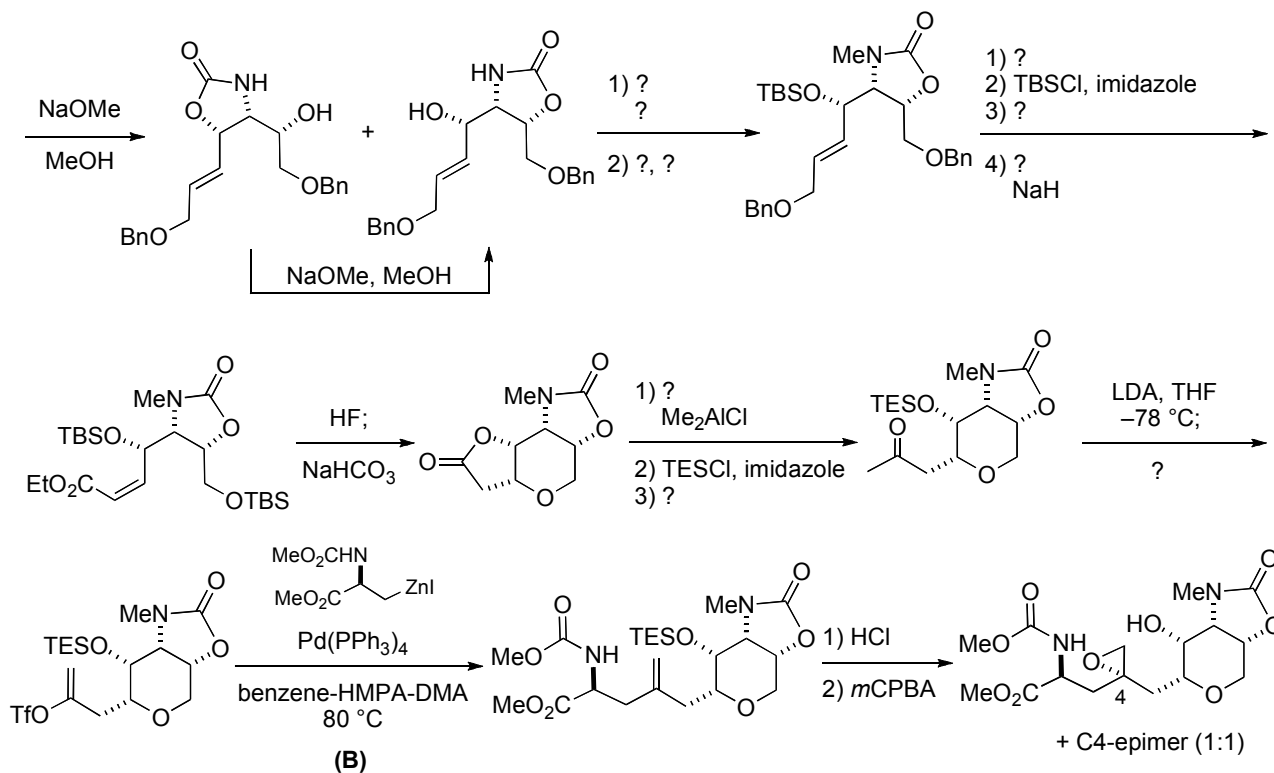
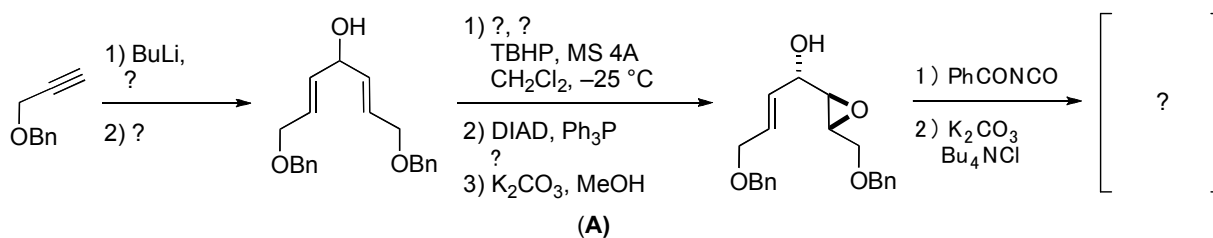
Activity

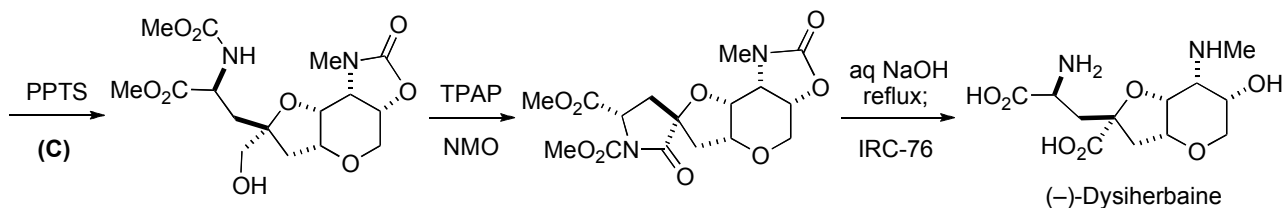
Glutamate receptor agonist (グルタミン酸受容体アゴニスト)

Key Reactions

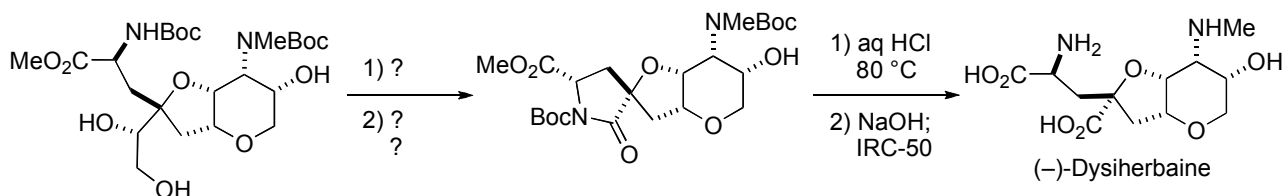
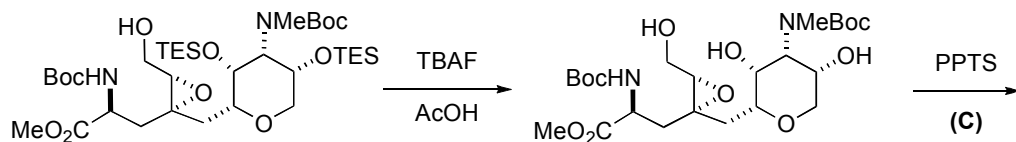
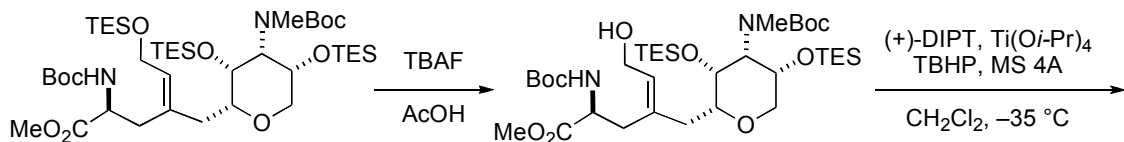
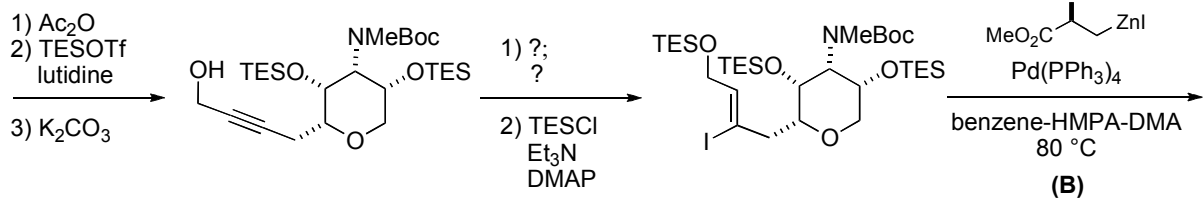
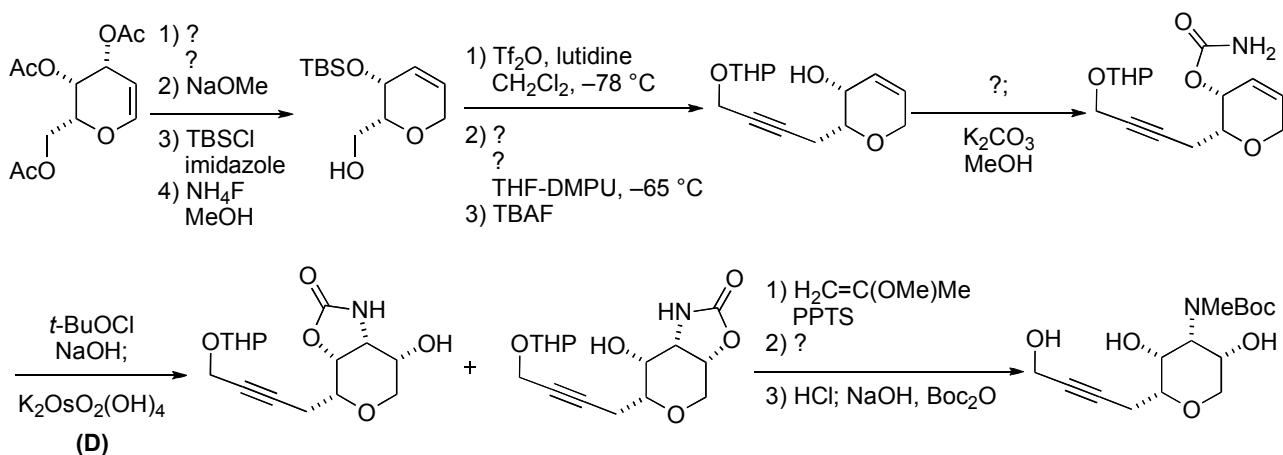
(A) desymmetrization using Katsuki-Sharpless asymmetric epoxidation,
 (B) cross-coupling using a serine-derived organozinc reagent,
 (C) 5-*exo-tet* cyclization, (D) intramolecular aminohydroxylation

—1st approach—¹⁾





—2nd 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)