epoxyquinoids

Scheme 3. Synthesis of Dienophiles 9 and 22^a

Scheme 6. Total Synthesis of Herpotrichone C (3)

A. Total synthesis of (+)-herpotrichone C (3).

B. DA reaction between (+)-deltipyrone C (4) and protected dienophile.

Both (-) and (+)-deltipyrone C (4) were accessed by adapting Enomoto's synthetic route with slight modifications.

Scheme 8. Completion of the Total Synthesis of Herpotrichones A (1) and B (2)

Scheme 7. Assembly of the Herpotrichone A/B Framework (61)^a

A. Herpotrichones A & B: Design of the solution.

B. Hydrogen bonding-assisted assembly of herpotrichone A/B framework.

Scheme 8. Completion of the Total Synthesis of Herpotrichones A (1) and B (2)