

Fig. 3 | Total synthesis of sorbicillactone A (7) and C9 analogs. **a** Chemical synthesis of sorbicillactone ethyl esters (27a/b). **b** Chemoenzymatic total synthesis of sorbicillactone A (7) and structural analogs 33–36 with different C9 substitutions using SorbC (labeled in yellow).

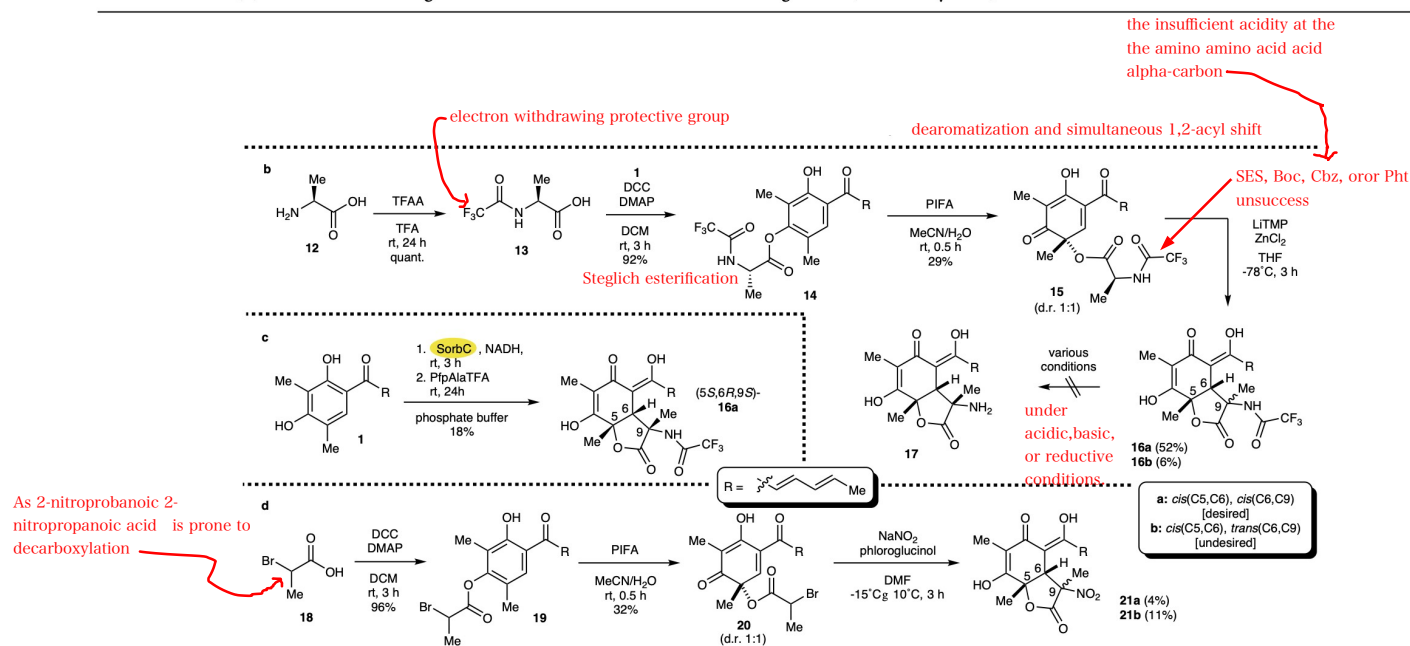


Fig. 2 | Initial synthetic efforts towards sorbicillactone A. **a** Initial retrosynthetic approach towards sorbicillactone A (7). **b** Unsuccessful synthesis of sorbicillactone derivative 17 devoid of the fumaril side chain. **c** Chemoenzymatic synthesis of TFA-protected sorbicillactone derivative 16a using recombinant SorbC (labeled in yellow). **d** Synthesis of nitrosorbicillactones 21a/b.