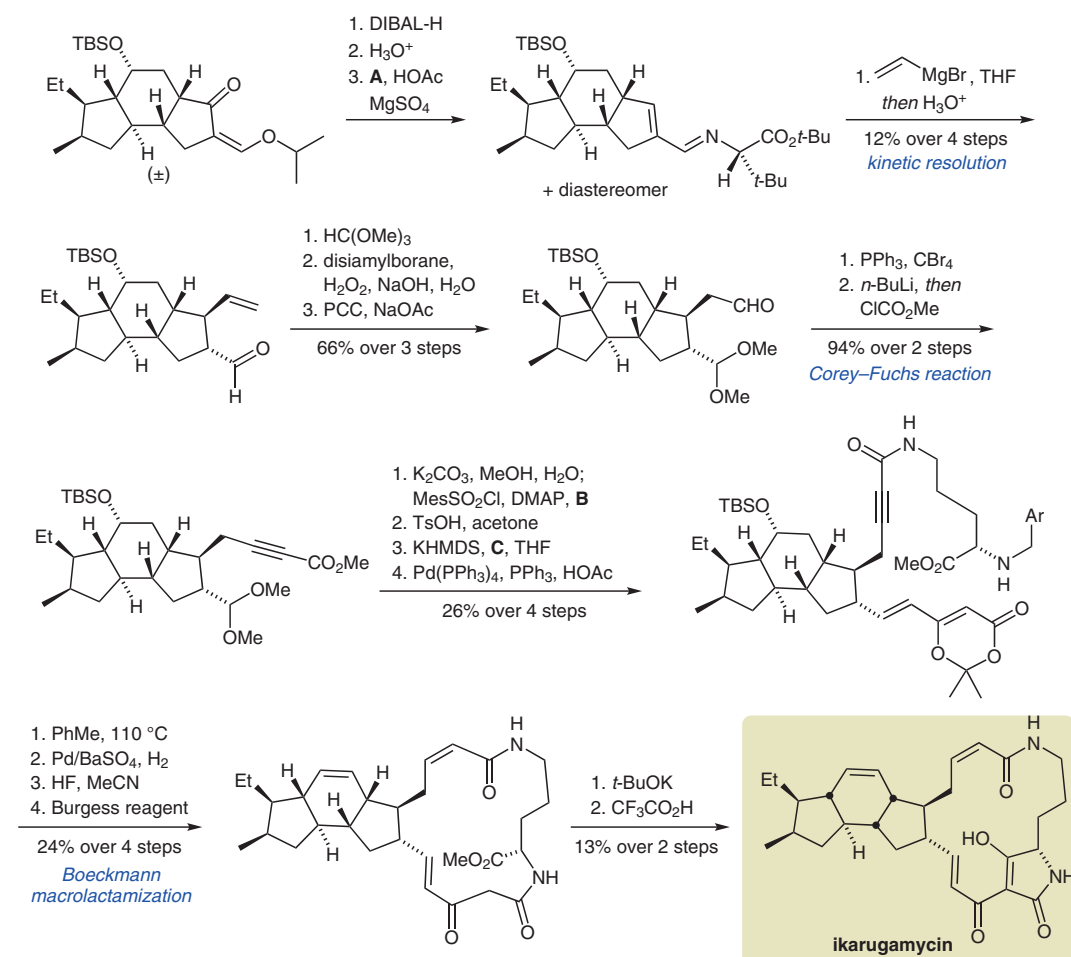
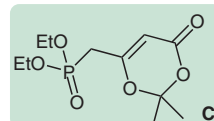
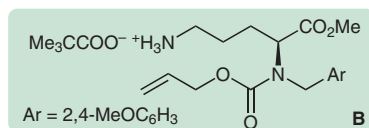
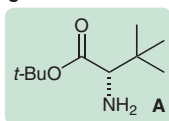


## A Convergent Synthesis of (+)-Ikarugamycin



### Reagents:



**Significance:** Ikarugamycin (IKA) is an antibiotic that is isolated from *Streptomyces phaeochromogenes*. IKA inhibits clathrin-mediated endocytosis and has been proposed as a tool compound to probe endocytic trafficking in cells.

**Comment:** Paquette and co-workers used a convergent method to assemble (+)-ikarugamycin. A kinetic resolution via a 1,4-addition of vinylmagnesium bromide to diastereomeric aldimines was key to their success. The macrolactamization was achieved through trapping a transiently generated ketene intermediate.