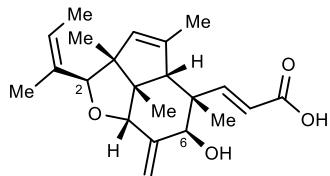


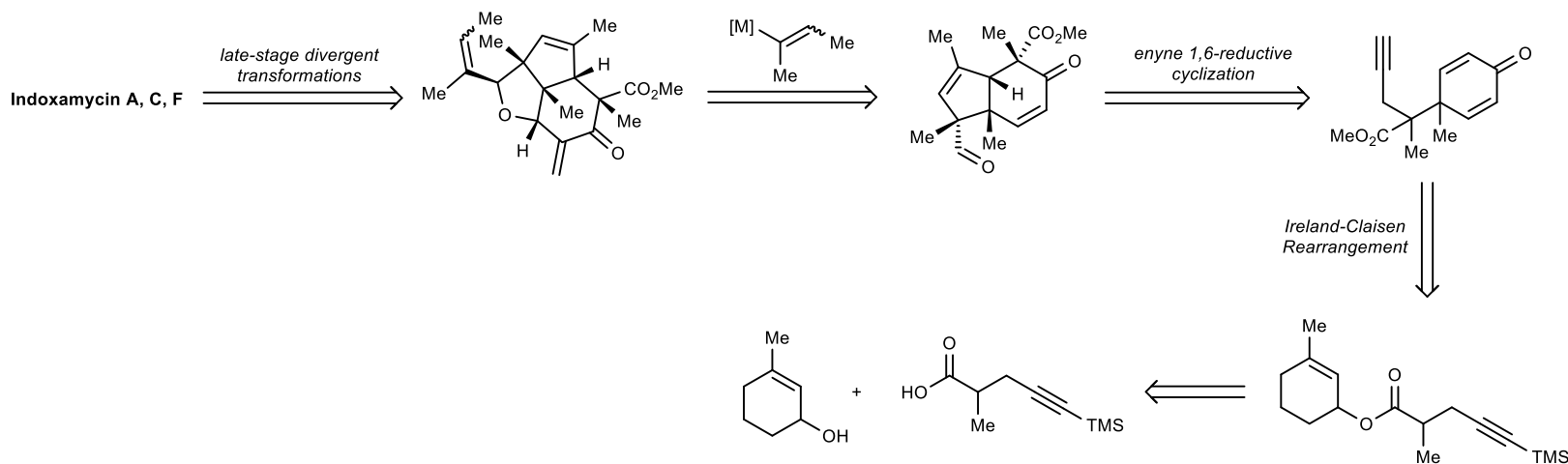
R = H, Indoxamycin A  
R = OH, Indoxamycin C



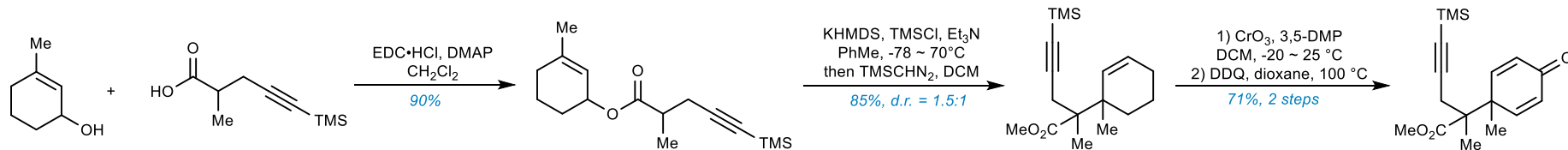
Indoxamycin F

- Indoxamycin A-F were Isolated from Actinomycete NPS643.
- Indoxamycin skeleton contains an unprecedented [5,5,6] tricyclic cage-like carbon framework and two side chains having a tri-substituted olefin and an unsaturated carboxylic acid, featuring six contiguous stereogenic centers.
- indoxamycins A and F have exhibited promising growth-inhibition activity against HT-29 tumor cell lines.
- Configuration of C2 and C6 were reassigned.

## Retrosynthesis



## Forward Synthesis



## Forward Synthesis

