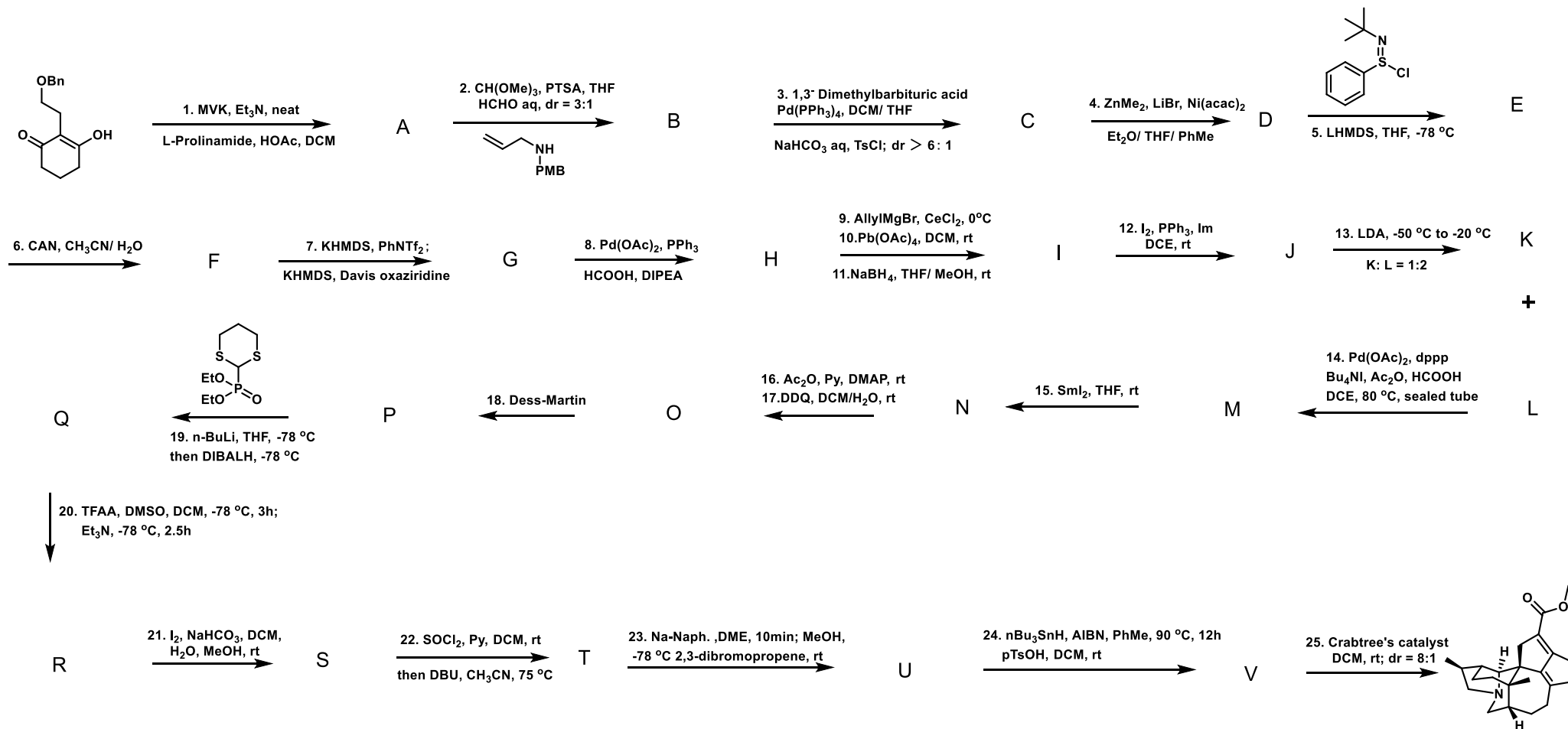


Asymmetric total synthesis of yuzurimine-type Daphniphyllum alkaloid (+)-caldaphnidine J



Tips:

1. Compound G: 3 ring Compound I: 2 ring Compound K: 3 ring Compound Q: 5 ring
Compound R: 6 ring
2. Step 15 : Pinacol coupling
3. Step 22 : Regioselective elimination