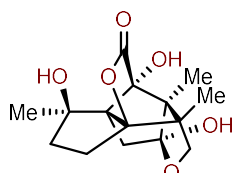


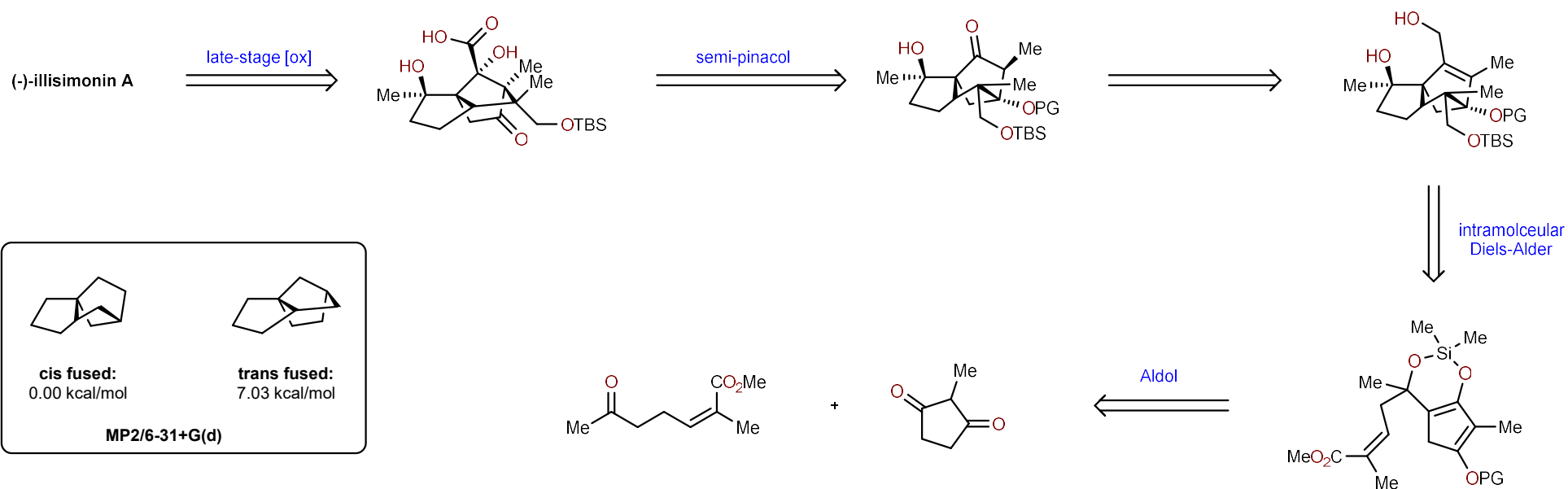
(-)-Illisimonin A (Rychnovsky, 2019)



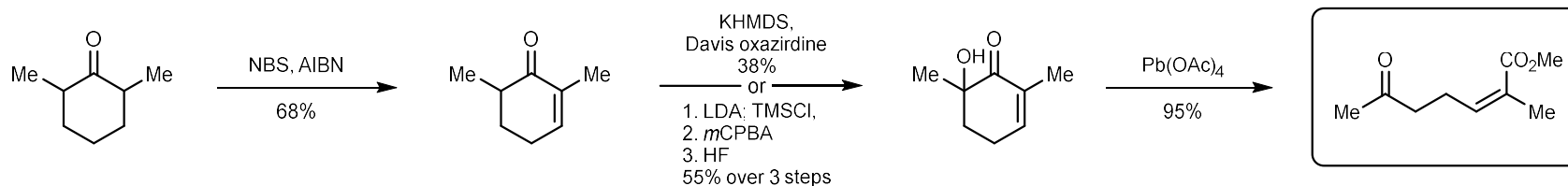
(-)-illisimonin A

- Isolated in 2017 from fruits of *Illicium simonsii*
- *Illicium* sesquiterpene
 - First example with tricyclo[5.2.1.0^{1,6}]decane carbon framework
 - 7 contiguous fully substituted stereocenters
 - Strained trans-pentalene
- Displays neuroprotective effects against oxygen-glucose deprivation-induced cell injury in SH-SY5Y cells
- First total synthesis

Retrosynthesis:



Synthesis of Ketone:



(-)-Illisimonin A (Rychnovsky, 2019)

