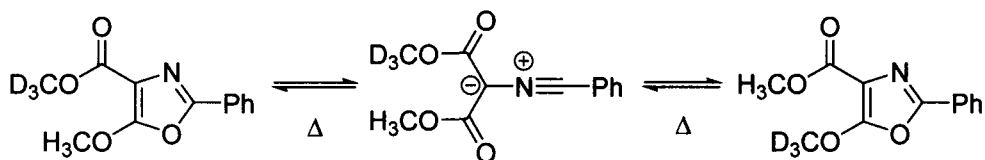
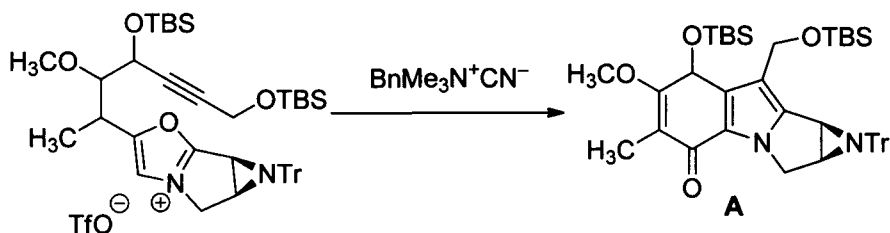


rearrangement is known as the Cornforth Rearrangement,<sup>100</sup> and could be exploited to the synthetic chemist's advantage if properly planned.



## 6.7 Problems

6.7.1 Vedejs and co-workers synthesized the following oxazole intermediate in their attempted synthesis of aziridinomitosenone A. Upon treatment with a cyanide source, the molecule participates in a [3 + 2] cyclization to form tetracycle A. Propose a complete, arrow-pushing mechanism for this transformation.<sup>87</sup>



6.7.2 Kuo and co-workers recently synthesized a novel series of vascular endothelial growth factor receptor-2 inhibitors, similar to the following.<sup>94</sup> Suggest a reasonable retrosynthetic analysis for constructing the indicated bond.

