Synthesis of DZ-2384

**Significance:** Diazonamide A, a metabolite of the ascidian *Diazona angulata*, displays potent in vitro activity against human colon cancer. DZ-2384 is a truncated analogue of diazonamide A that is 10- to 50-fold more efficacious than diazonamide A as an anti-mitotic agent in rodents. The synthesis of DZ-2384 proceeded in 13 total operations and 5.7% overall yield from L-tert-leucine.

**Comment:** The key step of the synthesis depicted is a macrocyclization initiated by an anodic oxidation of A at a graphite surface. Anodic oxidation of 60 grams of A gave 21 grams of a mixture of B (major) and its epi-C10,C11 diastereoisomer C (minor, dr = 2.7:1), which was separated from unreacted A (11.0 g) by silica gel chromatography. Separation of the diastereoisomers was achieved after hydrogenolysis of the Cbz group.