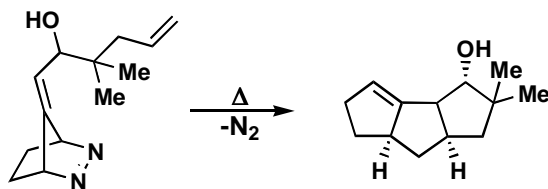


Group Meeting Problems – July 28, 2009

1. Little and co-workers employed this transformation in a series of studies directed toward the synthesis of diketocoriolin B. Please provide a mechanism for this transformation, accounting for stereochemistry when necessary.



2. The Still synthesis of monensin features the diastereoselective iodo-lactonization shown below. Please provide a mechanism along with the stereochemical outcome of this transformation and identify all the relevant stereochemical control element(s) operating in this reaction.

