Asymmetric Total Synthesis and Biosynthetic Implications of Perovskones, Hydrangenone, and Hydrangenone B
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Step 1:
Draw A with correct stereochemistry
*Hint:
This reaction is called “photoenolization/Diels–Alder”. Check the natural product for the stereochemistry outcome of this reaction

Step 4:
*hint: It’s a bulky reducing agent

Step 5:
Name the reaction

perovskatone D
Step 10: *Endo or exo?*
This is a biomimetic reaction, suggest any other reaction conditions you may want to try when you do this reaction?

Step 11:
This is also a biomimetic reaction, the mechanism? Which named reaction it would possibly be?