Synthesis of a $\gamma$-Secretase Inhibitor

**Significance:** $\gamma$-Secretase inhibitors are of interest for the treatment of Alzheimer’s disease. The key step in the synthesis of the target $\gamma$-secretase inhibitor is the stereoselective opening of the epoxide $E$ using a (triarylthio)boron reagent $F$ derived from reaction of BH$_3$ with p-chlorobenzenethiol.

**Comment:** The cis stereochemistry in $H$ derives from prior coordination of the (triarylthio)boron reagent to the epoxide oxygen in $E$ followed by epoxide ring opening and intramolecular transfer of an arythio group to the resultant carbocation $G$. 

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