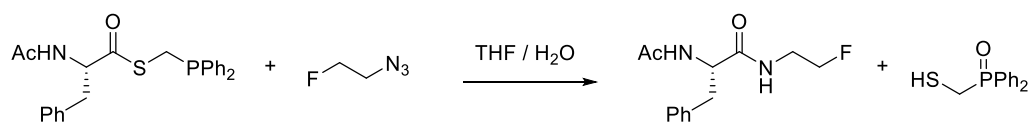
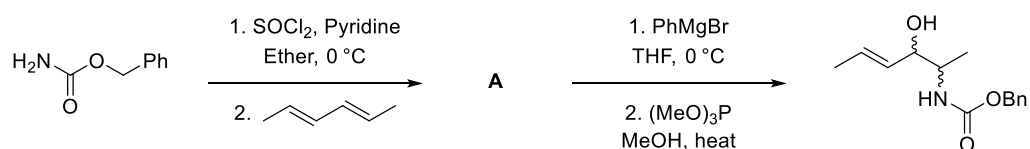


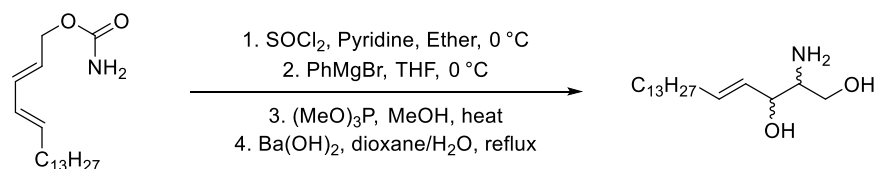
1. Provide a mechanism for the following reaction.



2. Provide a mechanism and rationalise the stereochemistry where appropriate for the following reactions.



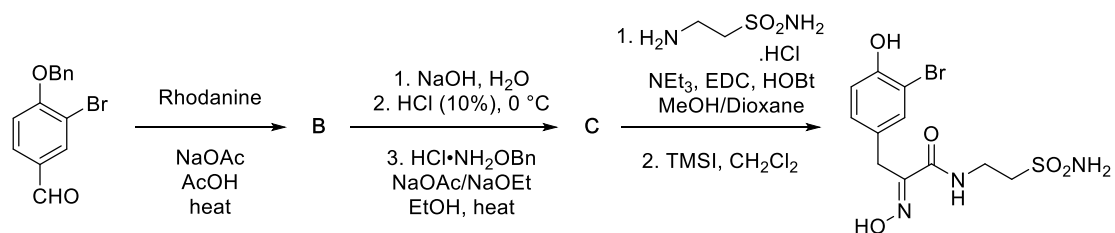
Using the previous reaction, deduce the intermediates and stereochemistry of the final product. Mechanistic detail is not necessary.



3.



4.



5. Retrosynthesis – α-1C-Galactosylceramide

