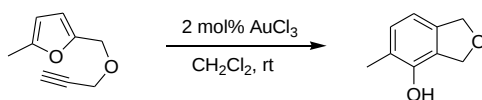


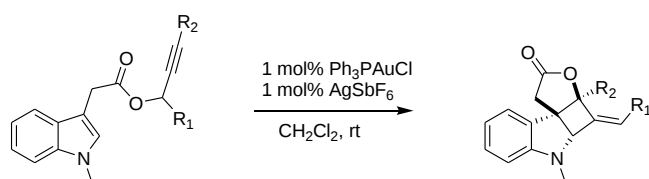
Gold and Cascade Reactions

Please provide a reaction mechanism for the following schemes.

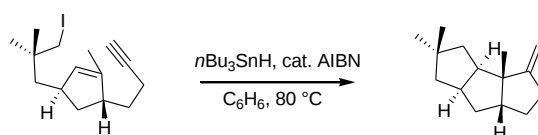
1.



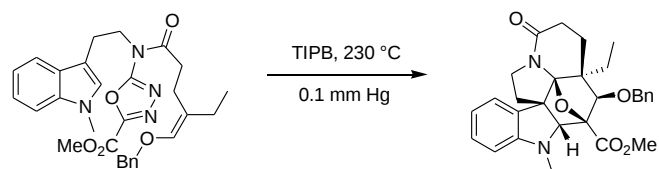
2.



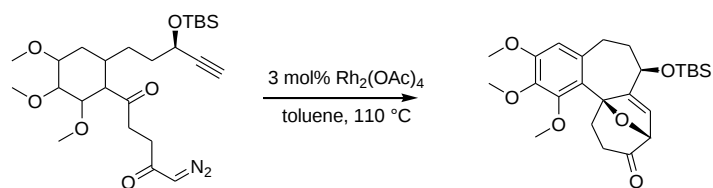
3.



4.



5.



To be continued....a cascade-based total synthesis follows.....