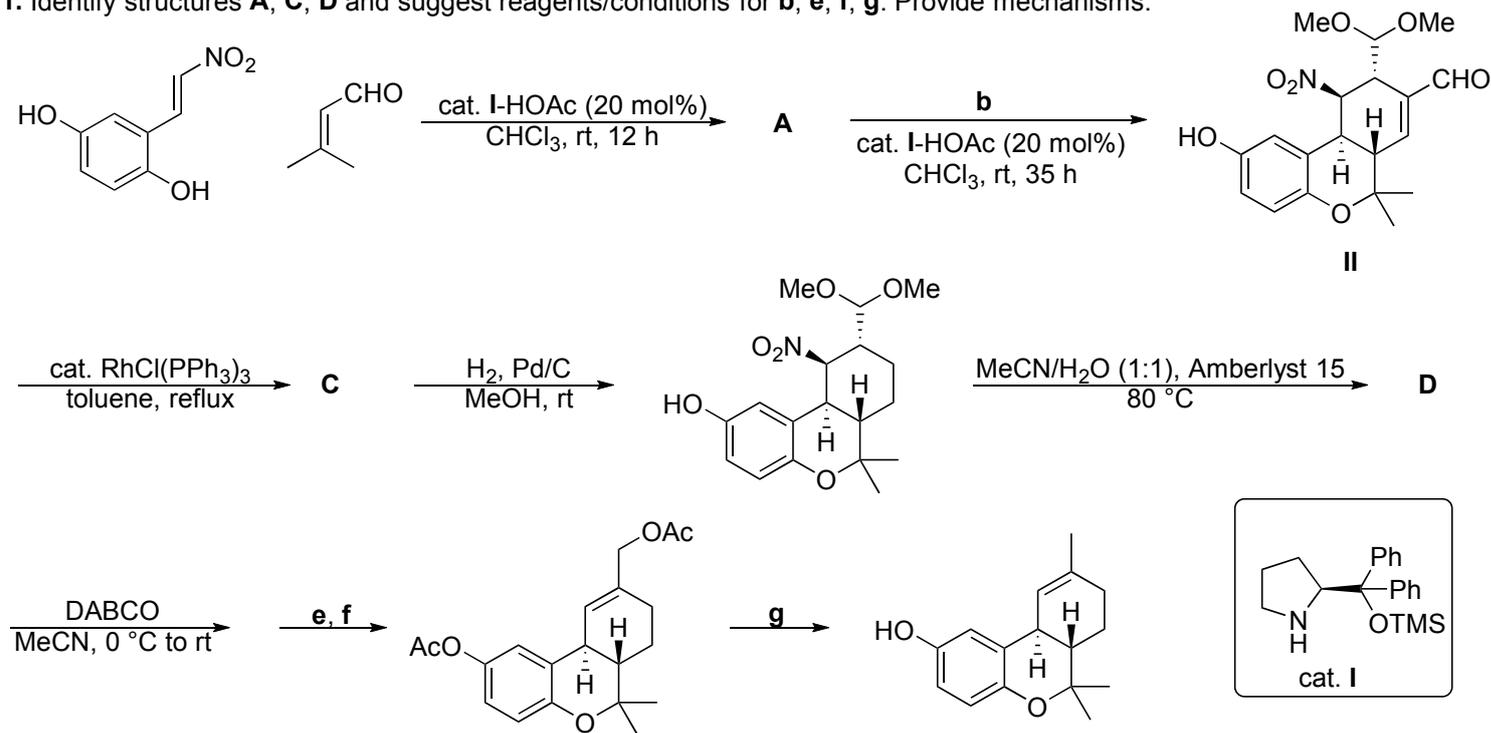
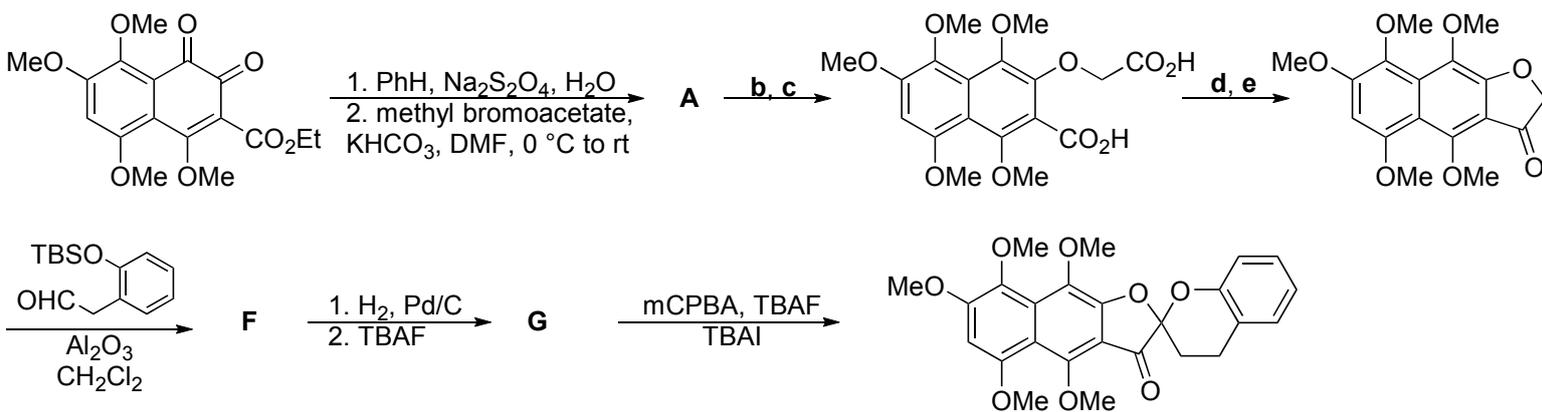


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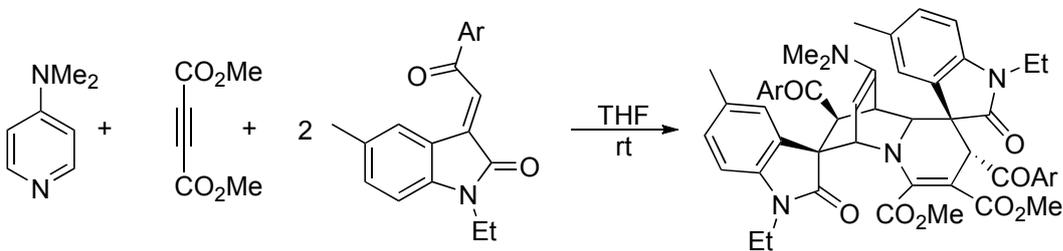
1. Identify structures **A**, **C**, **D** and suggest reagents/conditions for **b**, **e**, **f**, **g**. Provide mechanisms.



2. Identify structures **A**, **F**, **G** and suggest reagents/conditions for **b**, **c**, **d**, **e**. Provide mechanisms.



3. Provide a mechanism for the reaction.



4. Identify structure **A**, suggest reagents/conditions for **b** and provide mechanisms for the reactions.

