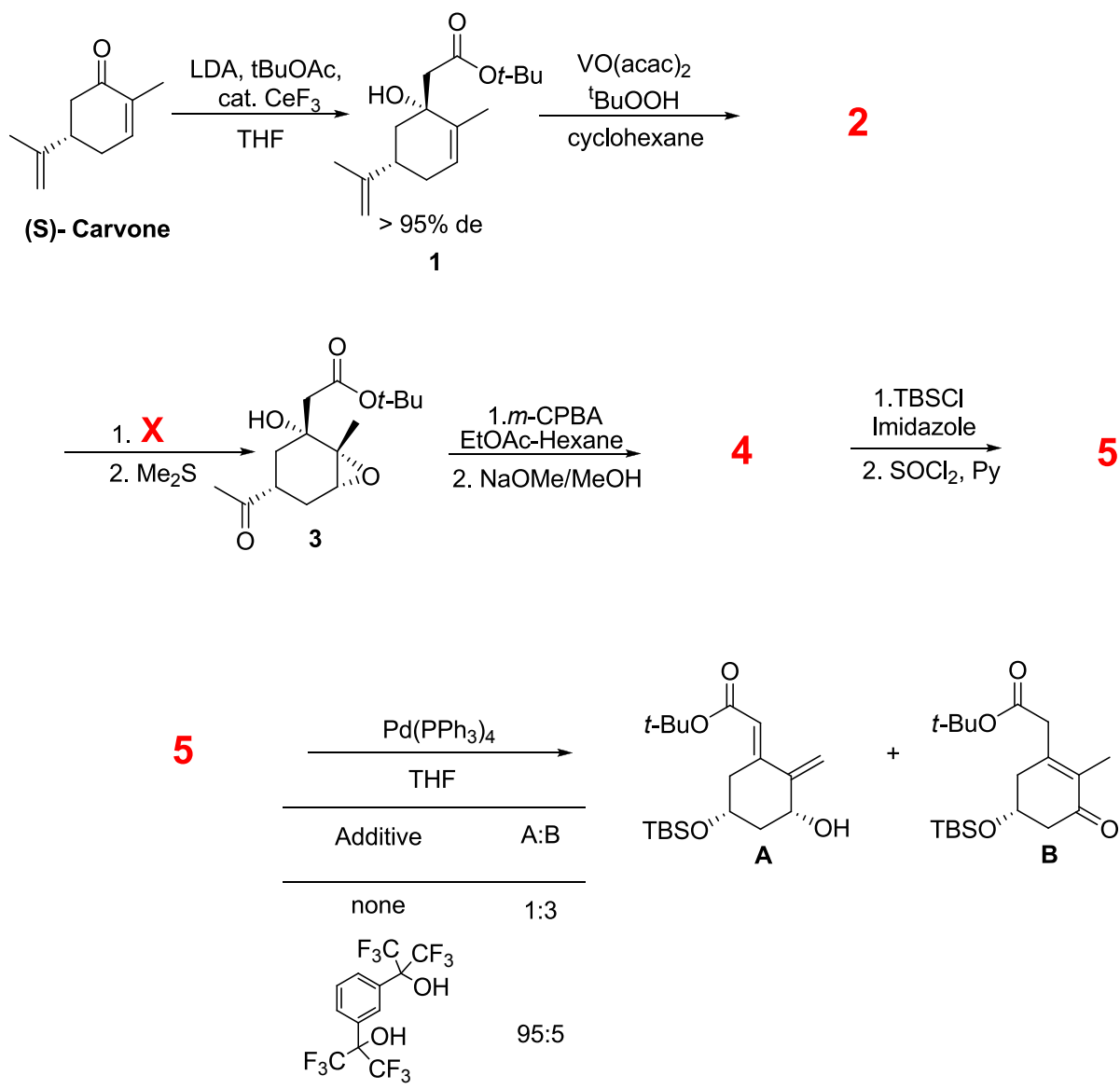


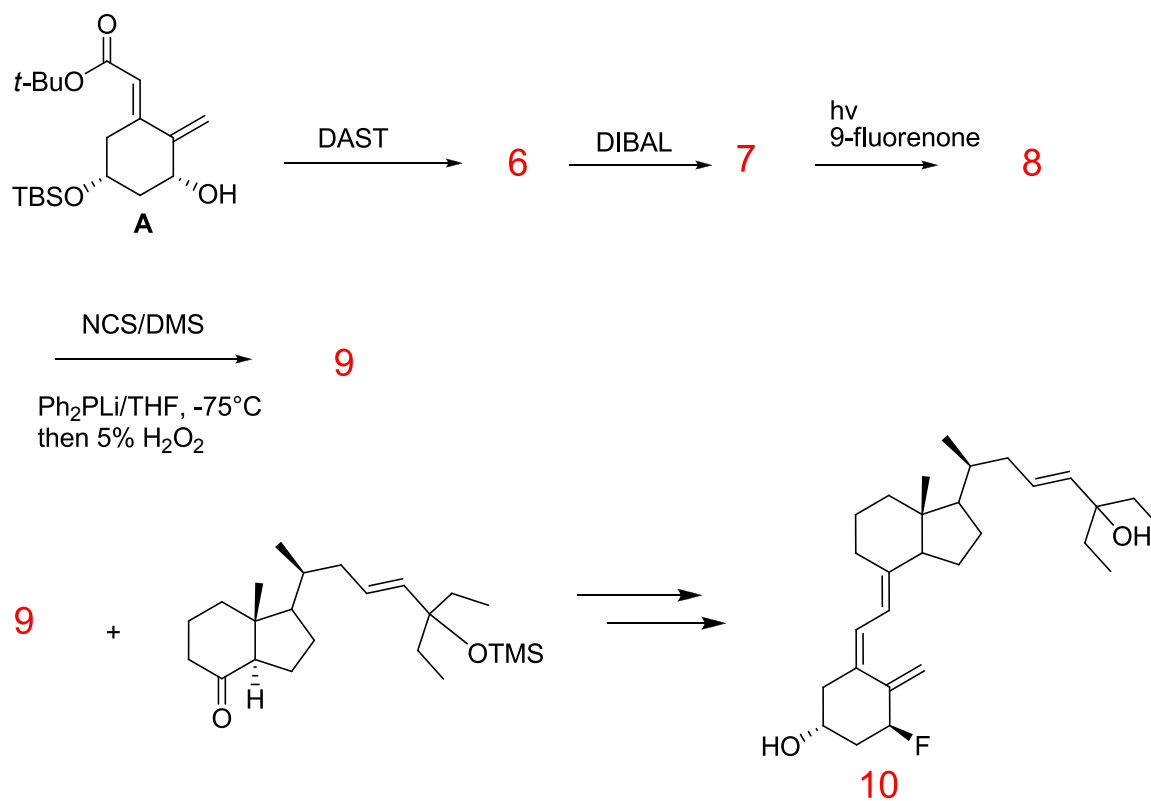
Synthesis of Vitamin D analogues



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Given below is a part of the synthesis of 1 α -Fluoro A-Ring Phosphine Oxide, a useful building block for Vitamin D analogues, from (*S*)-Carvone via a highly selective Palladium-catalyzed isomerization of dieneoxide to dieneol.





Questions:

1. Find out 2 to 9 and X.
2. Give a plausible mechanism for the formation of A and B. Give reason for the above mentioned selectivity in the presence or absence of the additive.