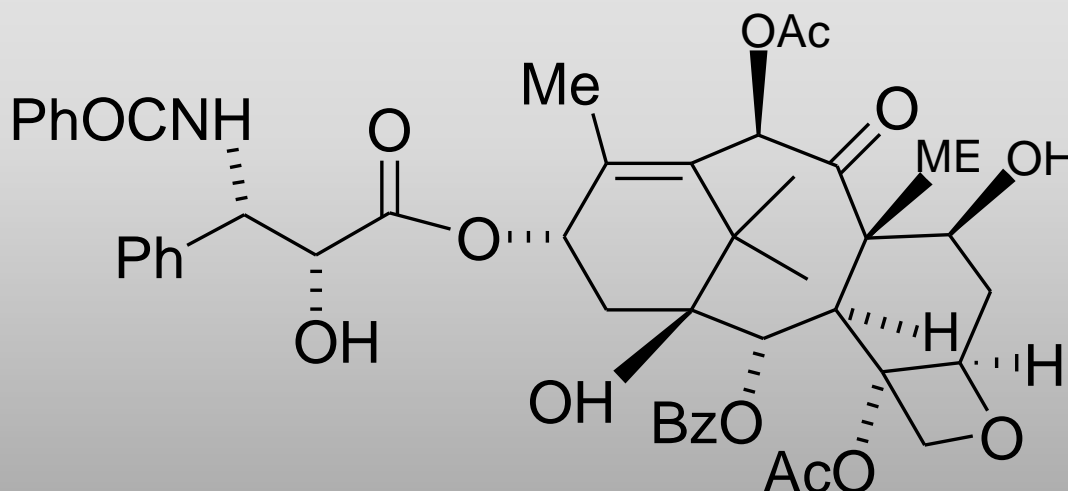
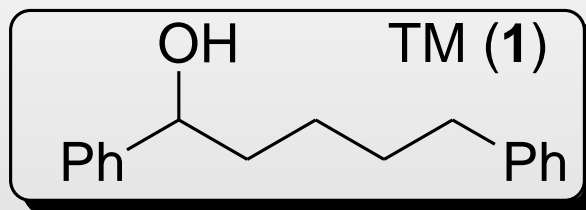


Como realizar análise retrossintética para a Molécula Alvo TM (1) com um grupo funcional?



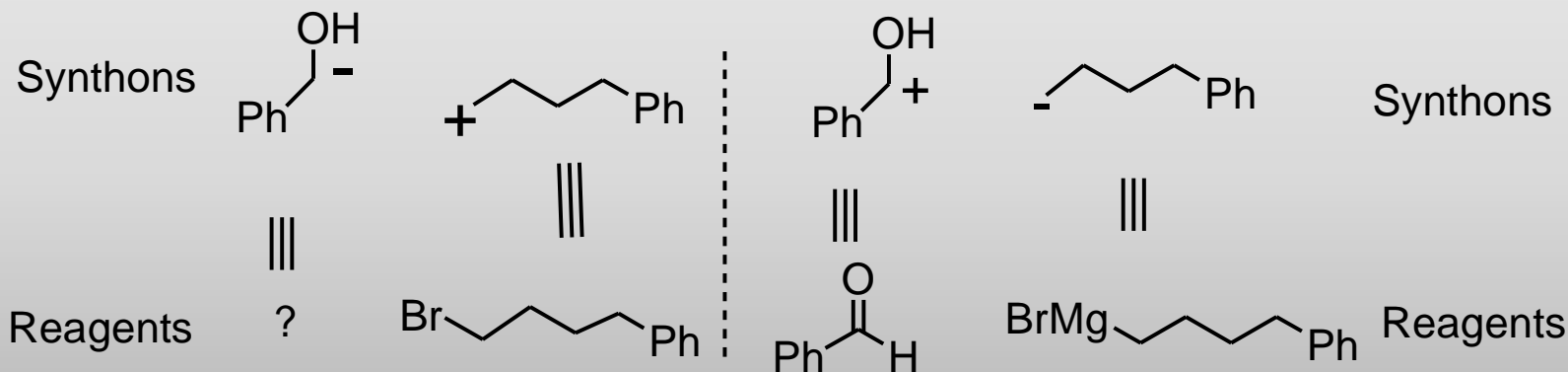
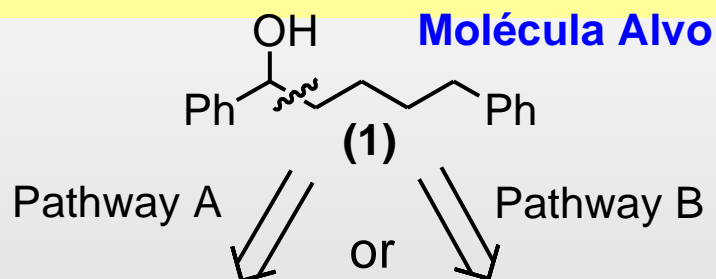
TAXOL
Potente e
efetivo
anti-câncer

LITERATURAS ESPECÍFICAS

- 1- Fuhrohop, J. and Penzilin, G. Organic Synthesis: Concepts, Methods and Starting Materials, Verlag Chemie, 1994.
- 2- Corey, E. J. and Cheng, X.-M, The Logic of Chemical Synthesis, Wiley 1995.

Síntese de uma TM com um grupo funcional requerendo uma única desconexão.

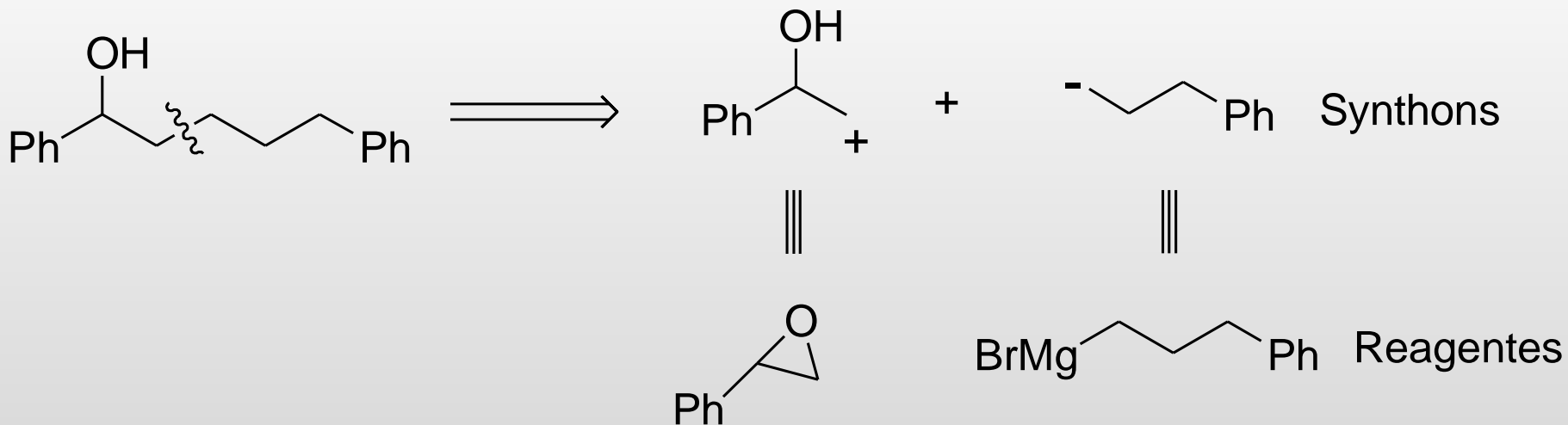
Análise Retrossintética 01 de TM (1)



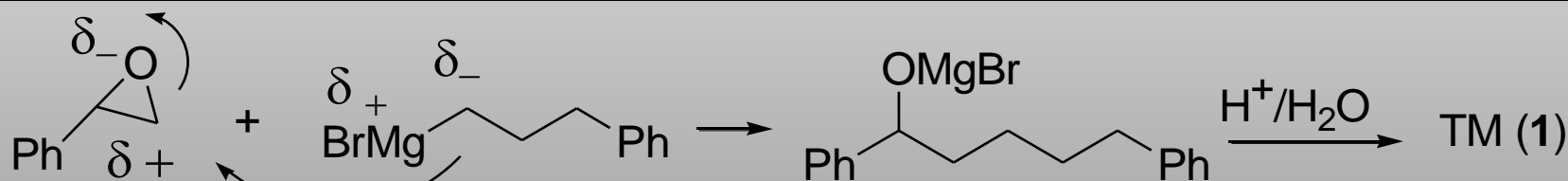
Síntese 1 de TM (1)



Análise Retrossintética 03 de TM (1)

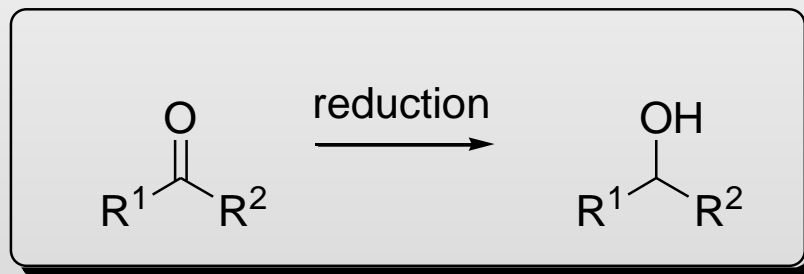


Síntese 3 de TM (1)

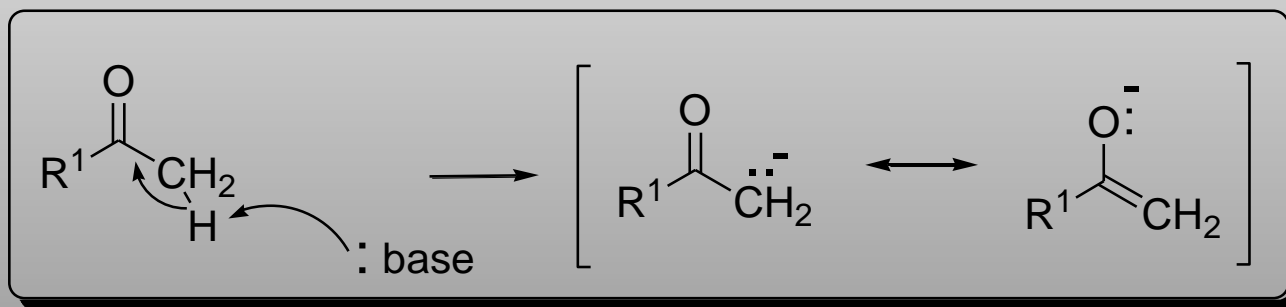


Exercício: Mostrar o outro par de synthons para essa mesma análise retrossintética (desconexão)?

As duas primeiras propostas anteriores foram baseadas na adição de Nucleófilos em aldeídos para levar a álcoois secundários e a última pela adição em epóxidos, ambas por FGI. Uma nova abordagem pode envolver a redução de cetonas a álcoois secundários.

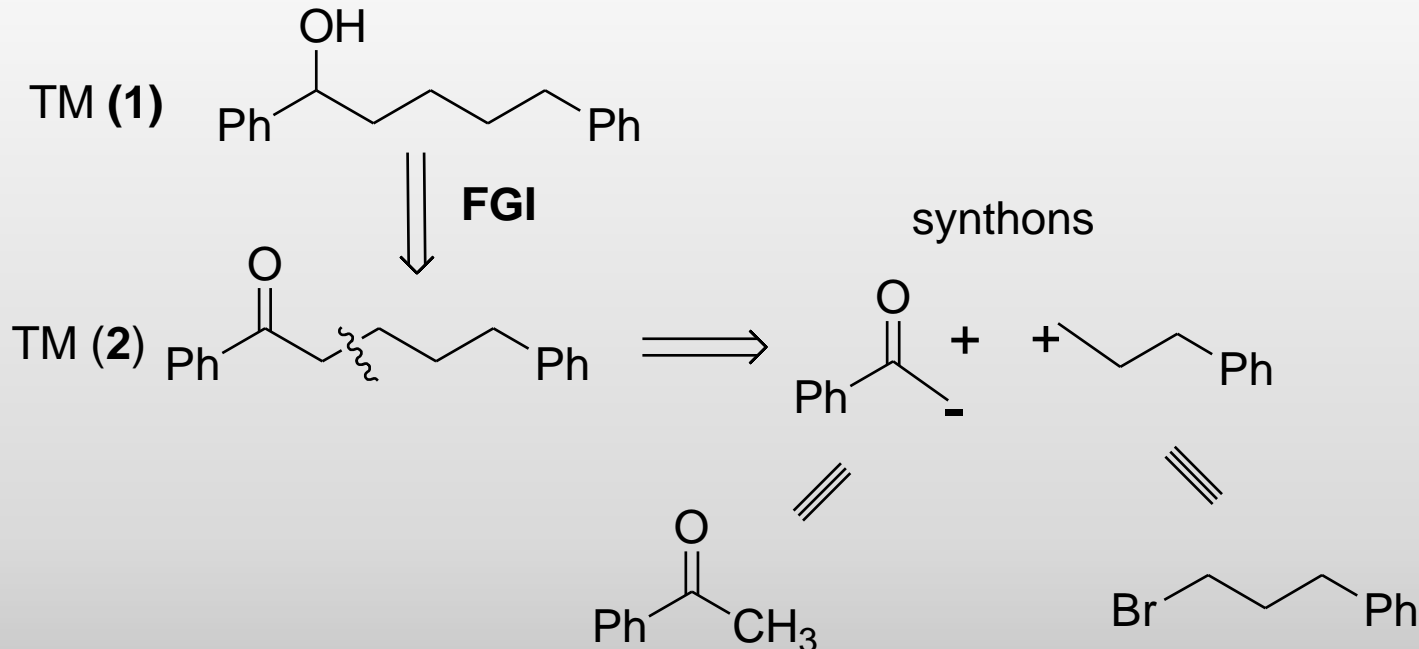


Baseado no conhecimento:

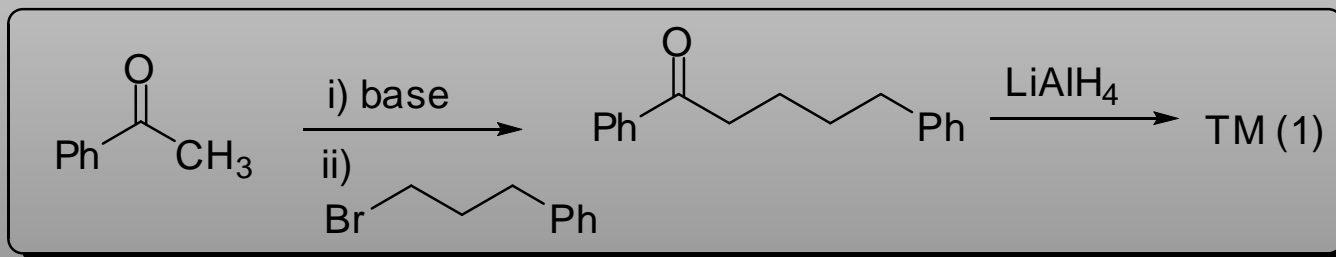


Poderia se propor antes da desconexão uma FGI da TM (1) ?

Análise Retrossintética 04 de TM (1)

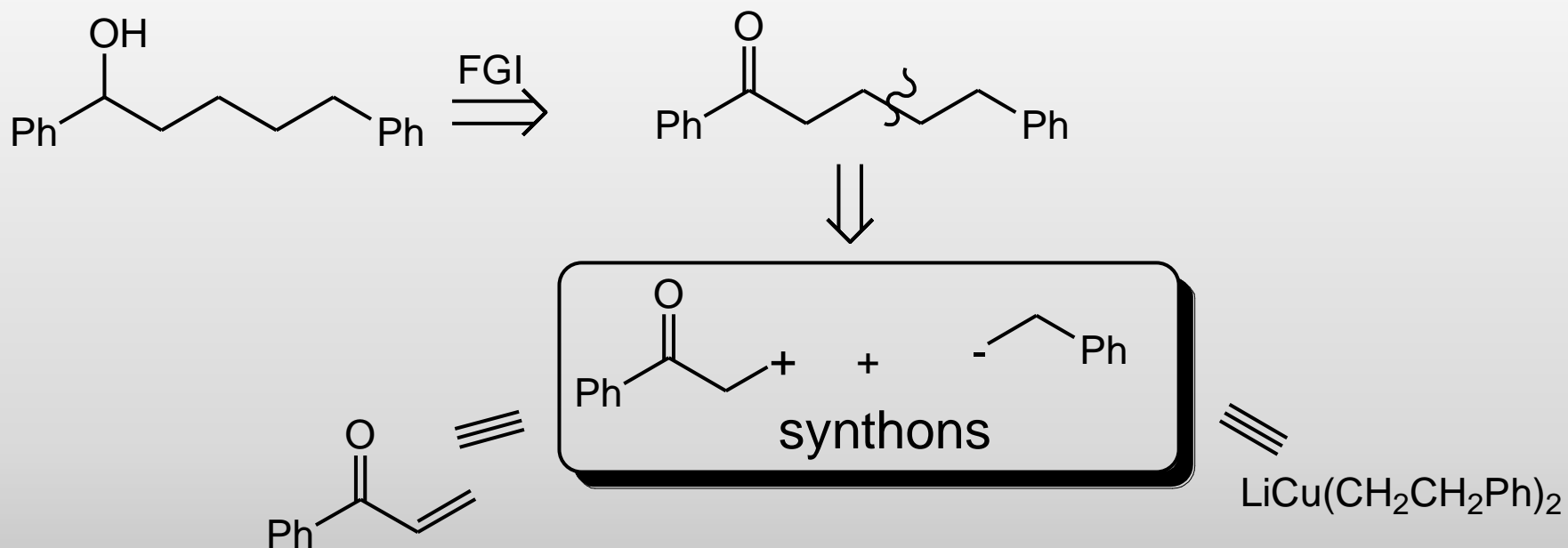


Síntese 4 de TM (1)

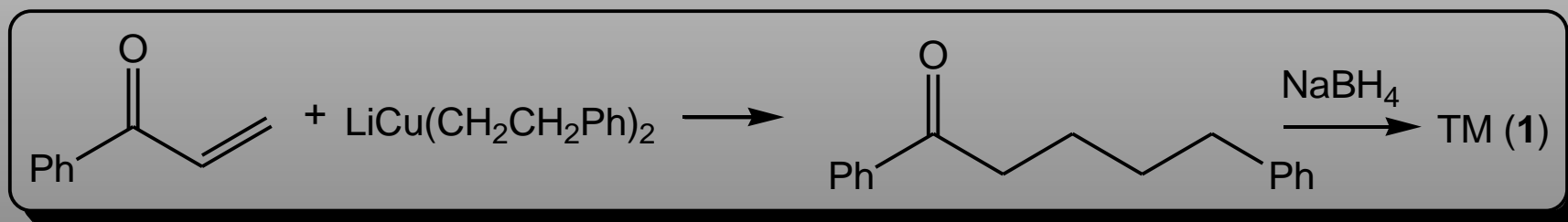


Exerc.: Mostrar o outro par de synthons da desconexão da TM (2)

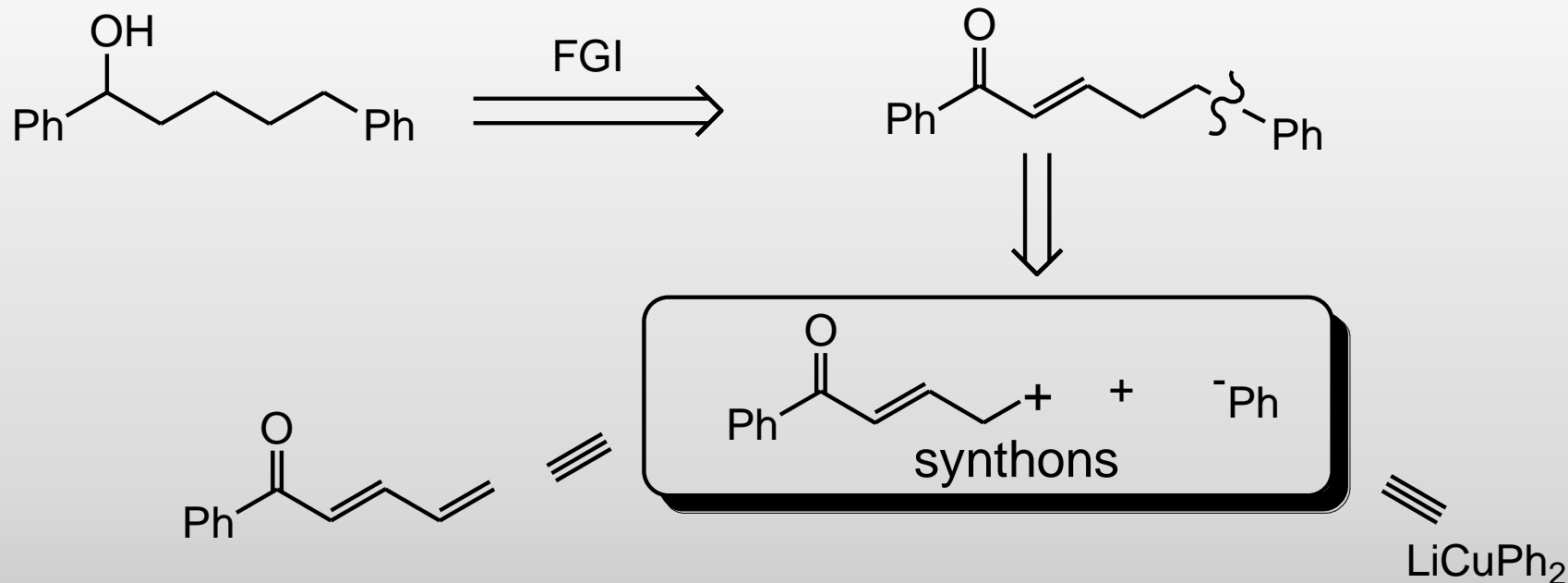
Análise Retrossintética 05 de TM (1)



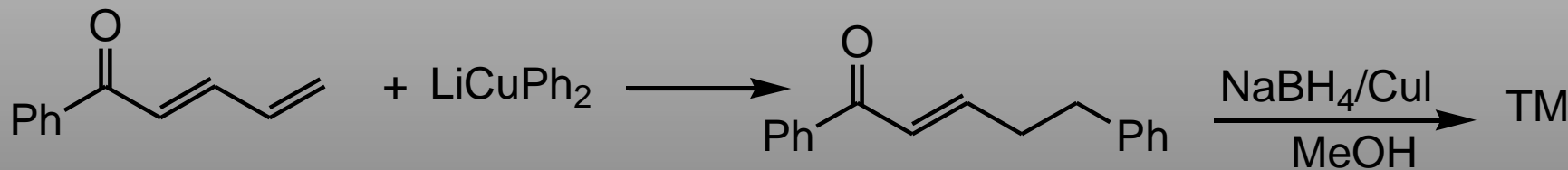
Síntese 5 de TM (1)



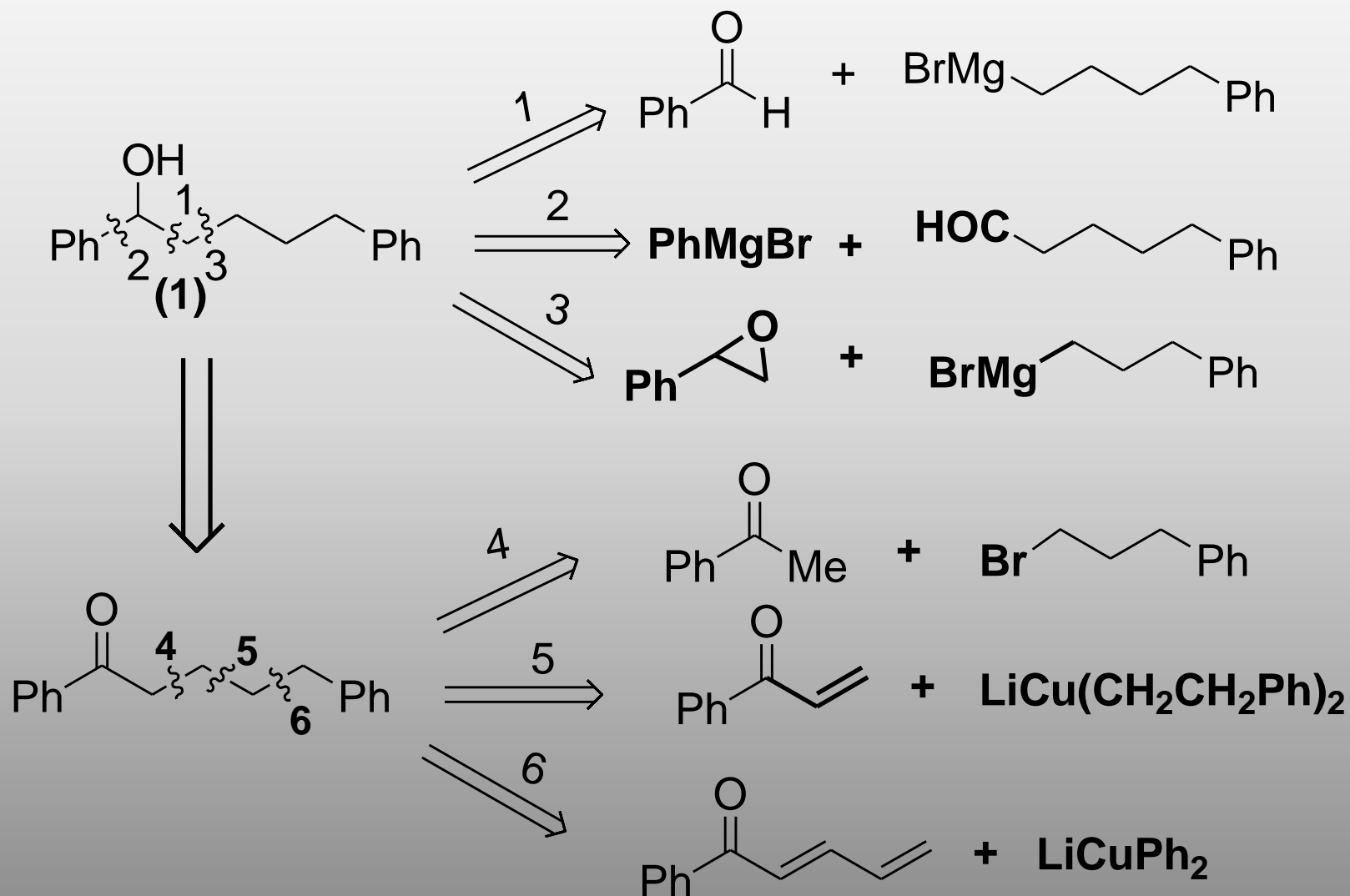
Análise Retrossintética 06 de TM (1)



Síntese 6 de TM (1)



Resumo das 06 rotas sintéticas para TM (1)



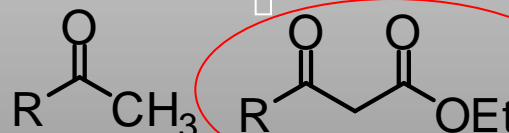
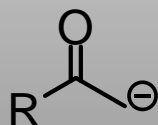
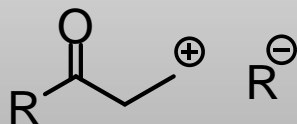
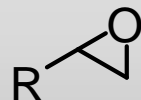
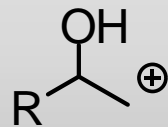
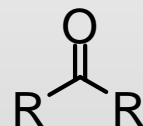
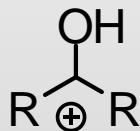
Equivalentes Sintéticos dos Synthons:

Synthon

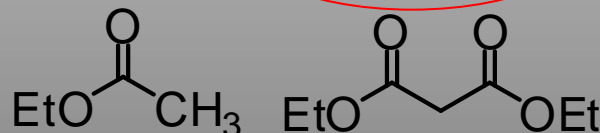
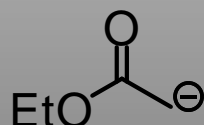
Equivalentes Sintéticos



R-Br, R-I, R-OMs, R-OTs
R= alkyl, not aryl



Como seria possível ?



Exercício: Realizar a retrossíntese e síntese como sugerido

