

CH-335 / Exercices - Séance N° 2

S. Dumard

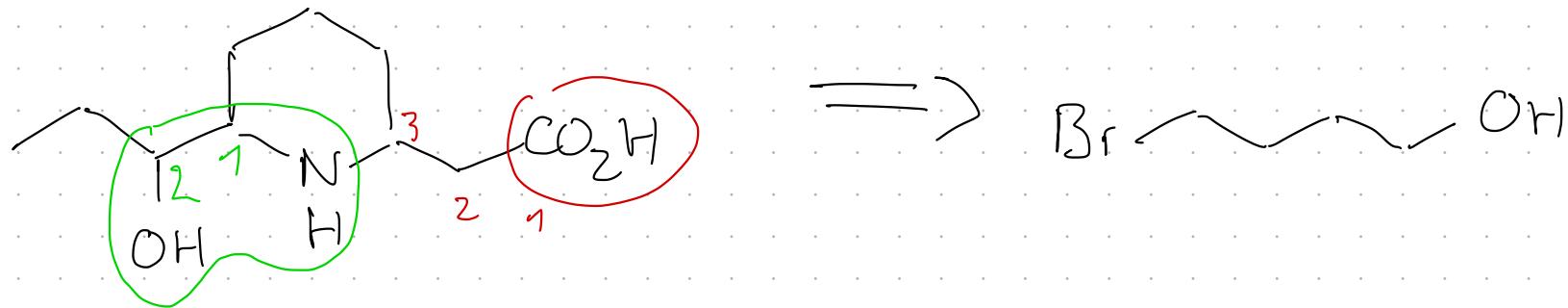
S. Gerber

2025



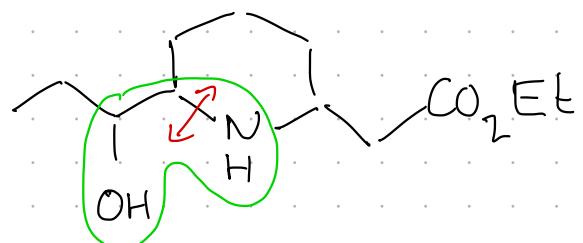
Exercice 1

1

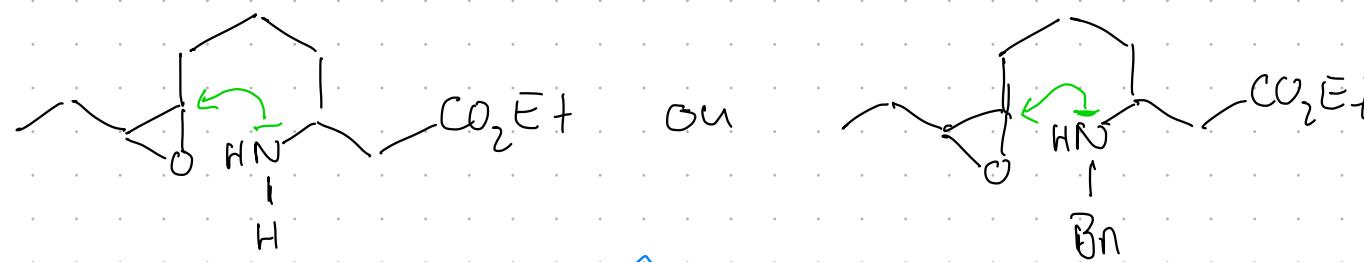


Eléments clés

- **2-hydroxyl amine** : disconnection C-X 1,2 \Rightarrow ouverture nucléophile d'un époxyde
- **Acide carboxylique** : polaire + acide \Rightarrow à protéger (ester)
position 1,3 avec amine suggère l'addition de Michael



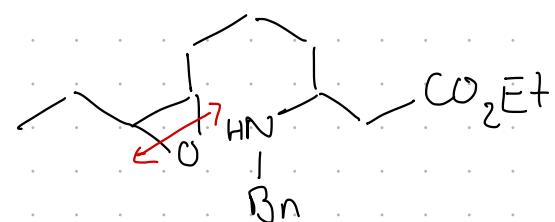
↑ ↓ C-N



H2O / C carboxy

IGF

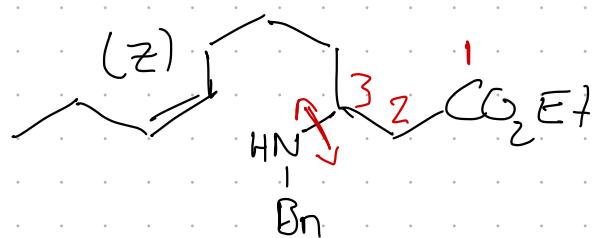
les mêmes
structures



2x C-O

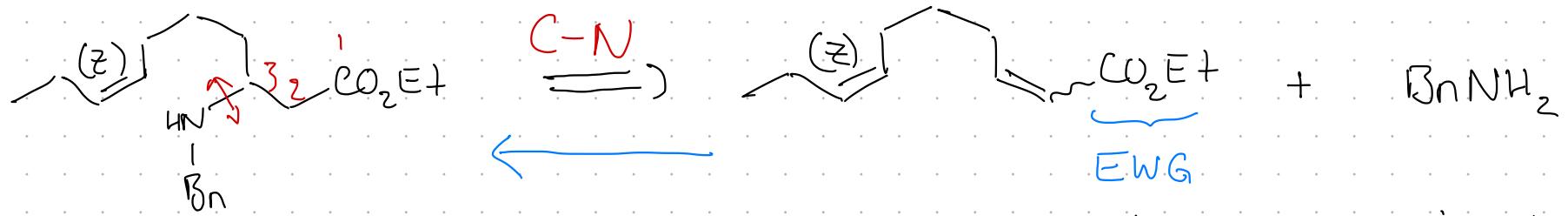
⇒

m CPBA



C-N

⇒

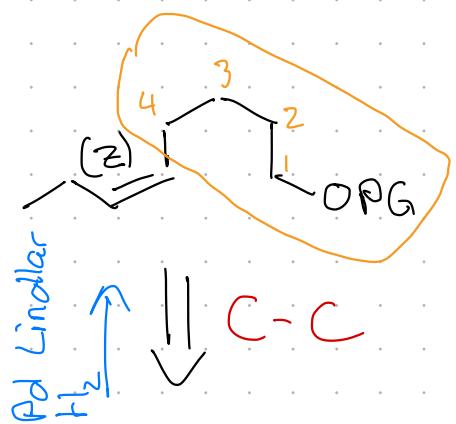
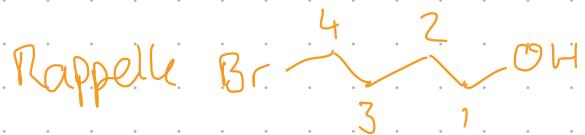
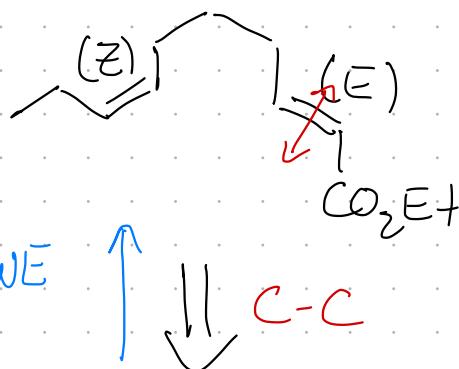


III

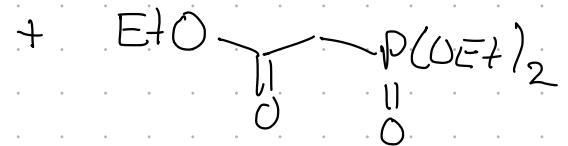
↳ en β de l'insaturation

\Rightarrow suggère l'oléfination HWE

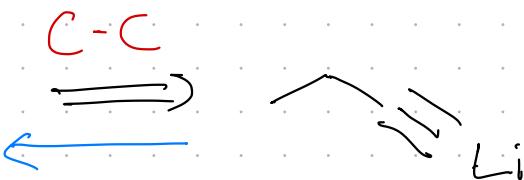
↳ insaturation (E)

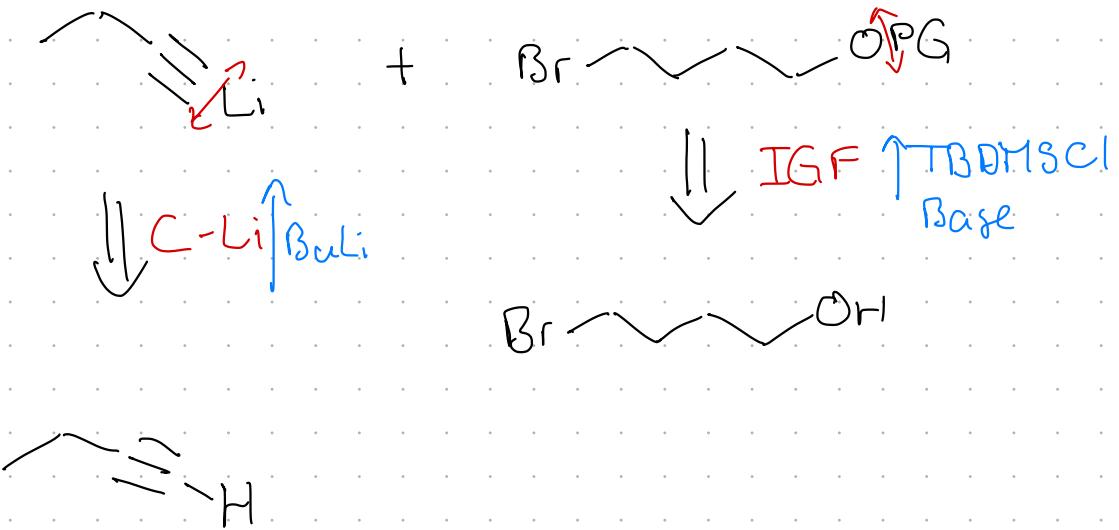


2. Swern OX.



↳ penser à un précurseur alcool, à protéger





- PG : résiste à des conditions basiques, nucléophiles, réductrices
- déprotection en présence d'un alcène
- \Rightarrow éther silylé encombré

Exercice 3

- P_1 : présent durant toute la séquence
 \Rightarrow robuste : volumineux
- P_2 : déprotégé sans affecter P_1 \Rightarrow orthogonal
 - résiste aux conditions de Grignard
- P_3 : protection de deux OH en position 1,3