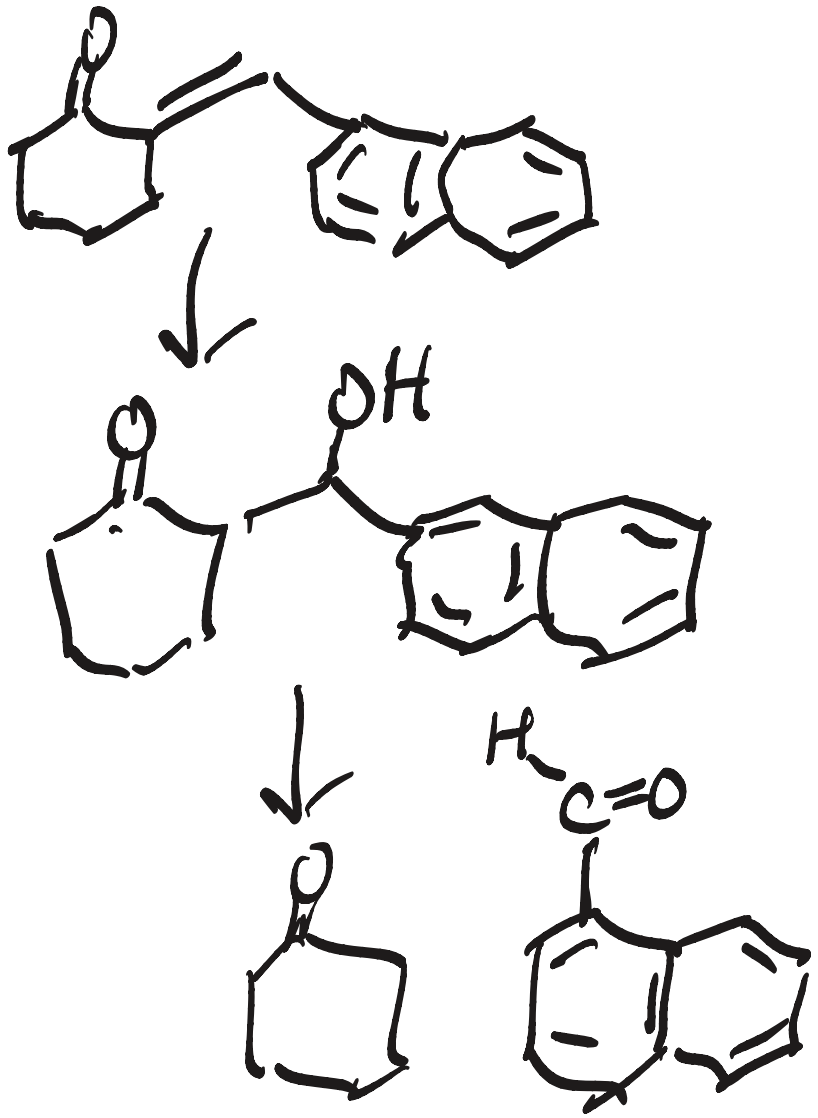
Dipeptide Day 1

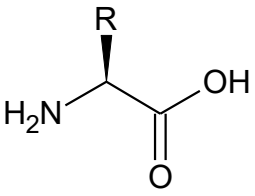
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10/29/26

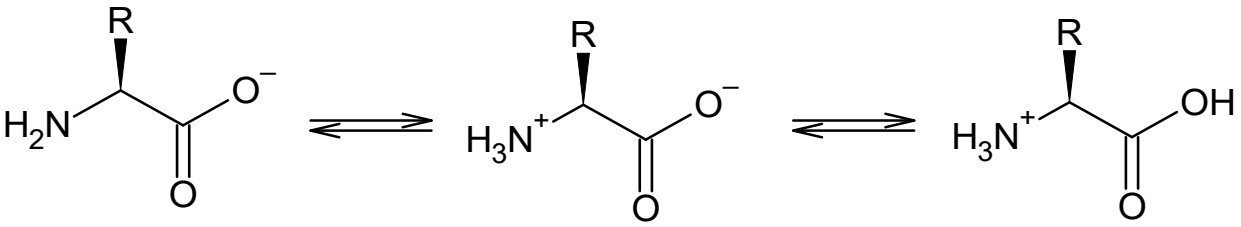
Retro synthesis

1. carbon skeleton
2. Functional groups

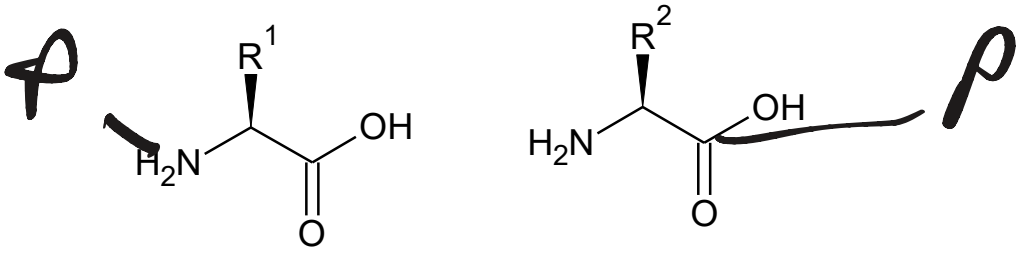


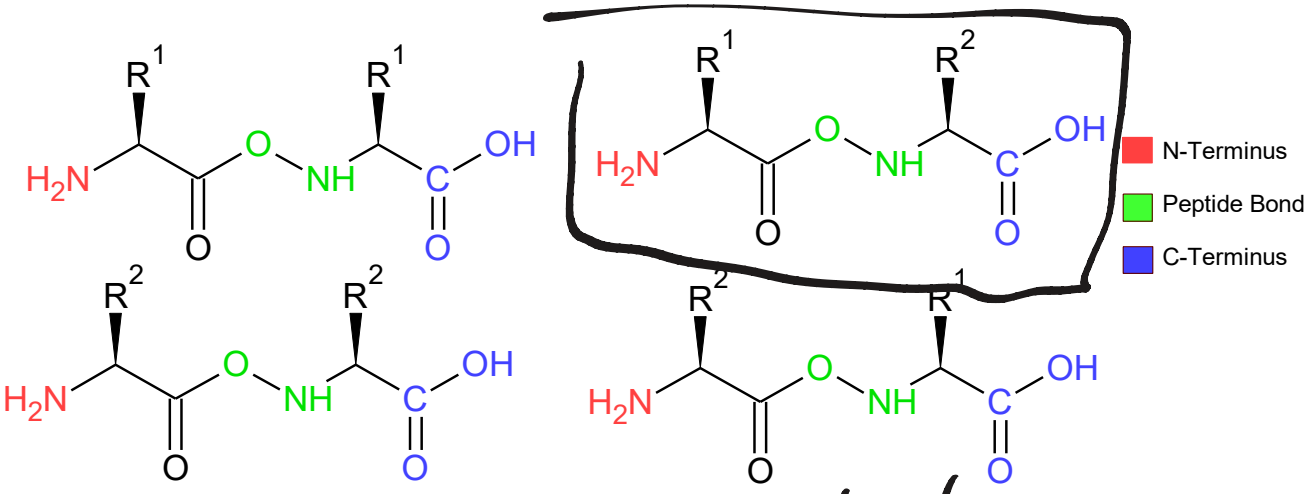


1. Carboxylic acid
2. Amine

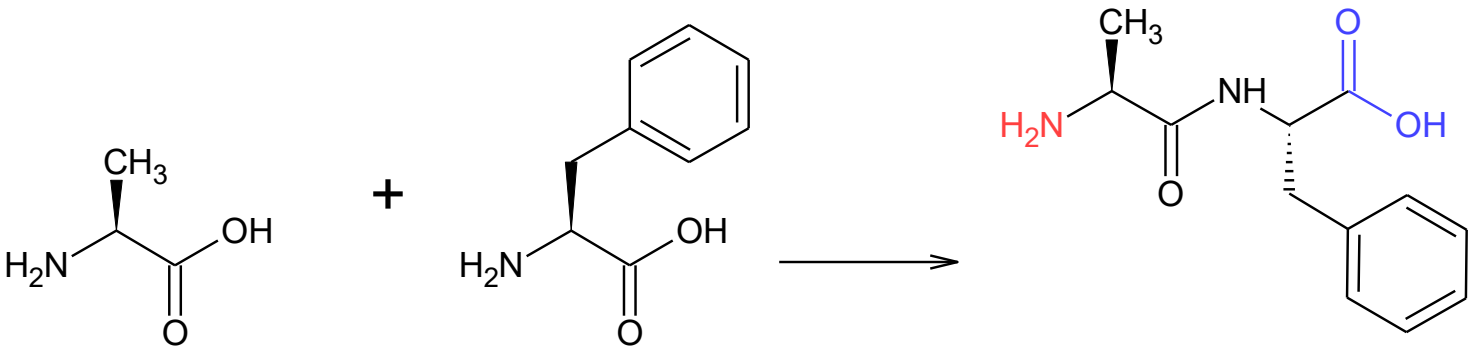


Basic Conditions Zwitter Ion Acidic Conditions

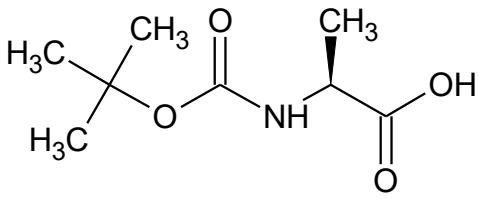




1. Amine protecting groups
2. CO_2H protecting groups
3. R group protecting groups

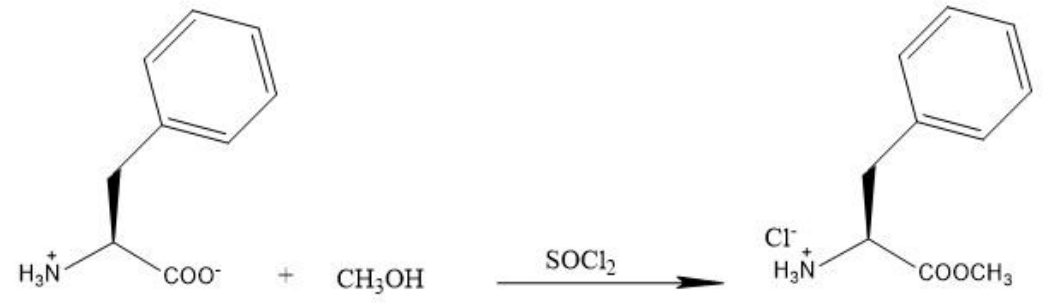


1.

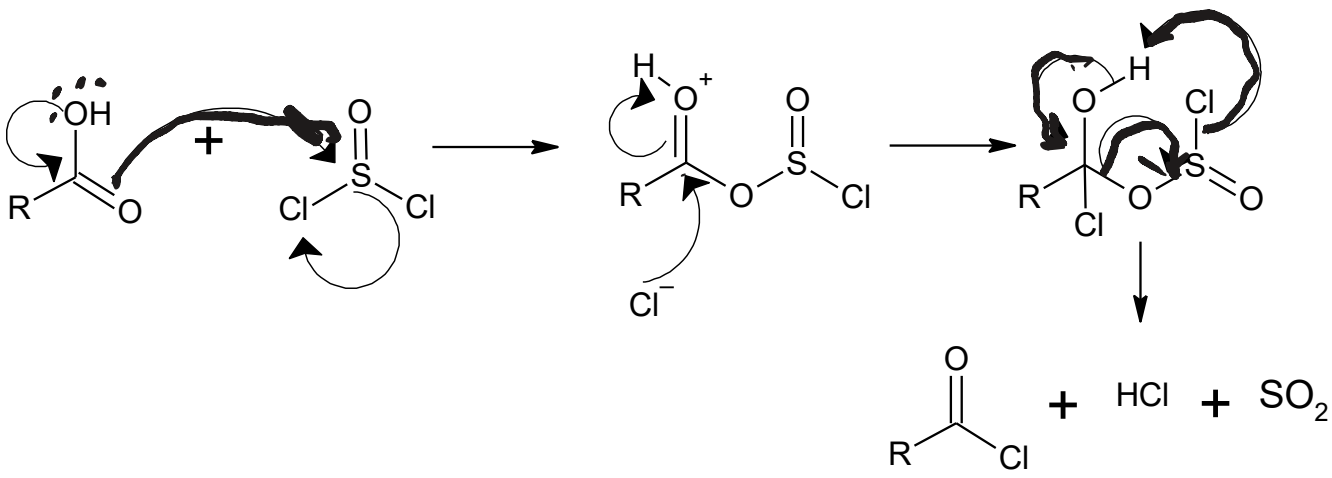


N-*tert*-Butoxycarbonyl-L-Alanine
Boc-Ala

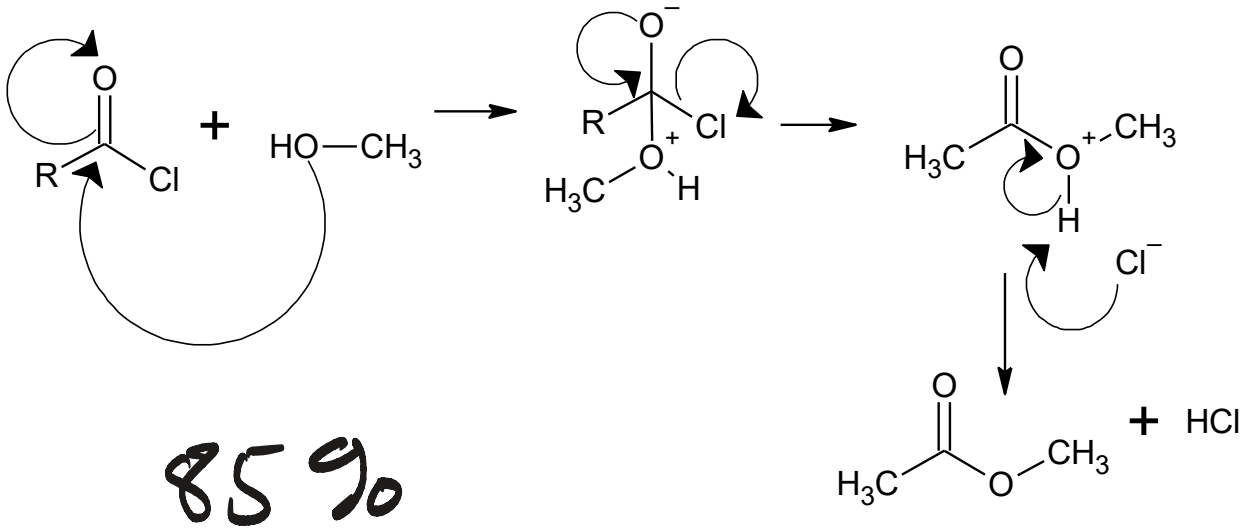
2.



1. Formation of L-Phenylalanyl Chloride



2. Formation of the Methyl Ester



85 %

40 - 50