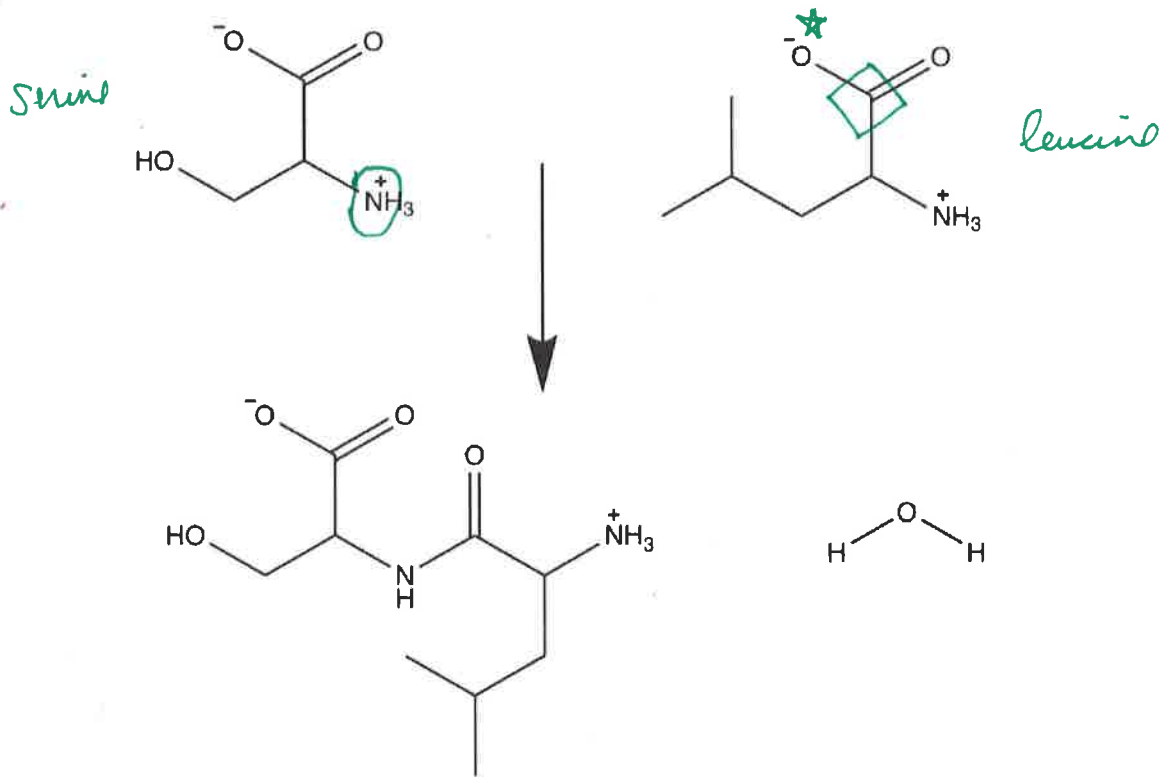


Name: Key

Quiz 36

Consider the following reaction between two amino acids.



1. Identify the amino acids.
2. On the structures of the starting amino acids, circle the nucleophile.
3. On the structures of the starting amino acids, square the electrophile.
4. On the structures of the starting amino acids, star the leaving group.
5. This reaction is unlikely to proceed. Give two reasons why:

a. The ammonium ion needs to be deprotonated to act as a nucleophile.

b. The ammonium ion/amine nitrogens will be a better leaving group than the oxyanion even if it were protonated to a hydroxyl group.