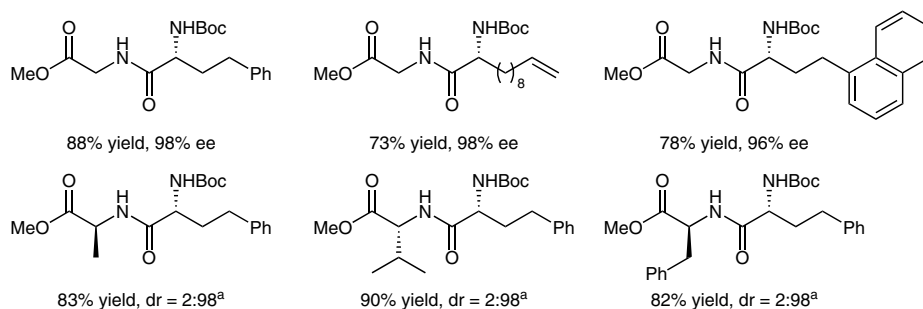
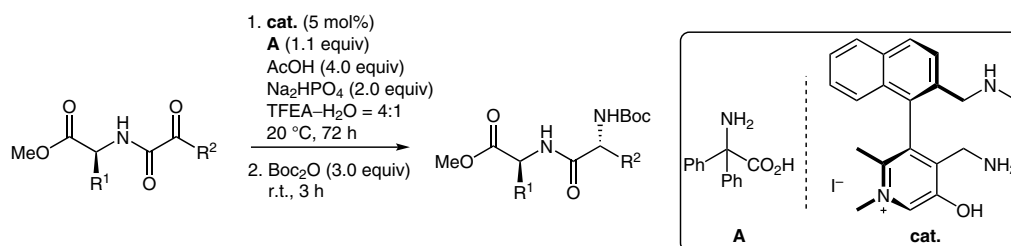
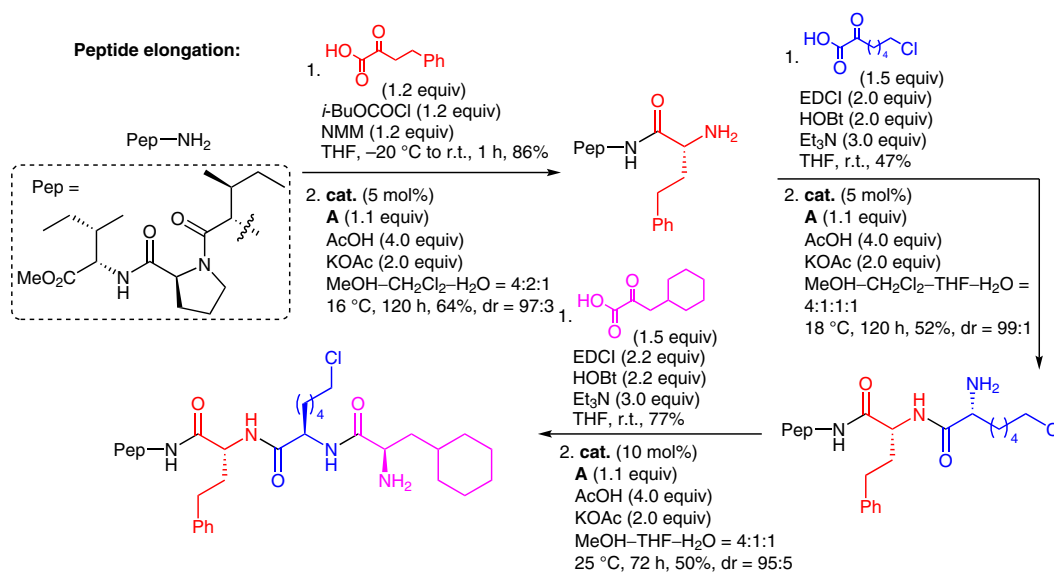


Peptide Synthesis by Asymmetric Transamination of α -Keto Amides



^aUse MeOH–H₂O = 4:1 as the solvent.

Peptide elongation:



Significance: Peptide synthesis is important in drug discovery and medicinal chemistry. The authors have developed an asymmetric transamination method for synthesizing peptides from α -keto amides.

Comment: By using an N-quaternized axially chiral pyridoxamine as a catalyst, a wide range of dipeptides can be synthesized from α -keto amides in good to excellent yields. This transamination method can also be applied in peptide elongation to synthesize peptide chains containing unnatural amino acids.