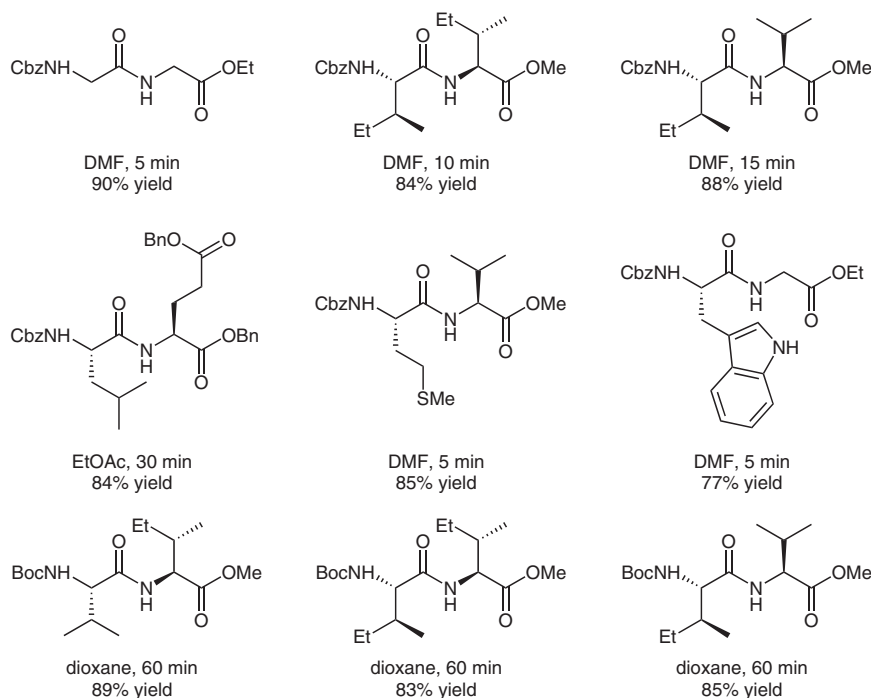
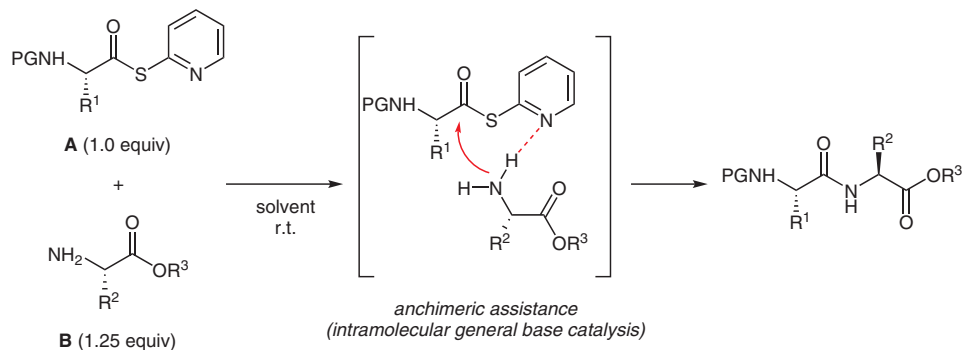


Peptide Bond Formation by Using 2-Pyridyl Thio Esters



Significance: Anchimerically assisted coupling methods have been used in peptide synthesis. These reactions usually start from active esters, such as 8-hydroxyquinoline esters or *o*-methoxyphenyl esters. In 1971, Lloyd and Young reported a method that used active 2-pyridyl thio esters and amines to form peptide bonds with anchimeric assistance.

Comment: With the 2-pyridyl thio esters, various dipeptides can be synthesized without the use of classical peptide-coupling reagents. The yields of the target peptides are moderate to excellent, and the reaction time is short.