Allenone-Mediated Formation of Peptide Bonds

Significance: The development of an efficient method for amide bond formation is important in peptide drug discovery. The authors have developed an allenone-mediated peptide synthesis.

Comment: This allenone-mediated amidation reaction affords peptides containing a variety of amino acid residues in high yields without any epimerization.

Selected examples:

- 94% yield in 2 steps, de > 99%
- 82% yield in 2 steps, de > 99%
- 86% yield in 2 steps, de > 99%
- 90% yield in 2 steps, de > 99%