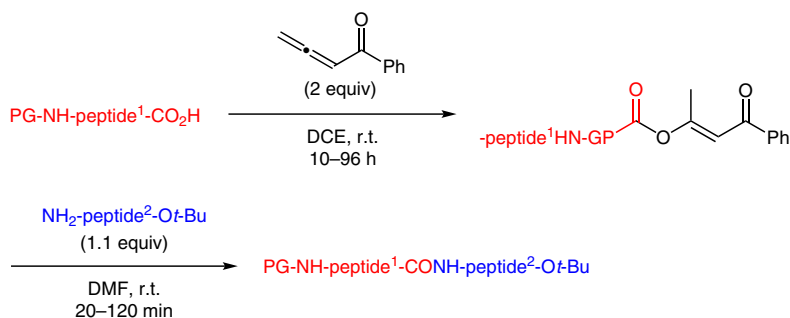
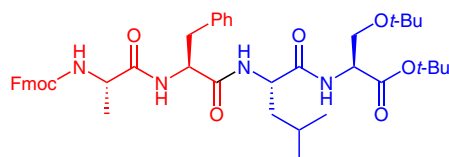


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 Allenone-Mediated Racemization/Epimerization-Free Peptide Bond Formation and Its Application in Peptide Synthesis  
*J. Am. Chem. Soc.* **2021**, *143*, 10374–10381, DOI: 10.1021/jacs.1c04614.

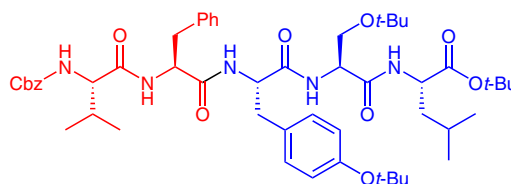
## Allenone-Mediated Formation of Peptide Bonds



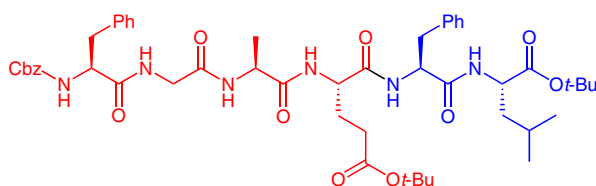
### Selected examples:



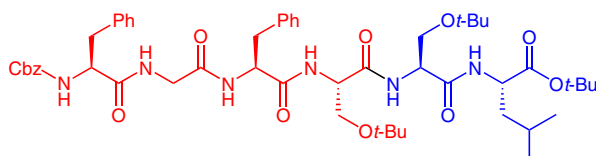
94% yield in 2 steps, de > 99%



82% yield in 2 steps, de > 99%



86% yield in 2 steps, de > 99%



90% yield in 2 steps, de > 99%

**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.

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 Synfacts 2021, 17(11), 1283 Published online: 19.10.2021  
 DOI: 10.1055/s-0040-1720903; Reg-No.: H10621SF

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Category

Peptide Chemistry

Key words

allenones

$\alpha$ -carbonyl vinyl esters

peptide-bond formation

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