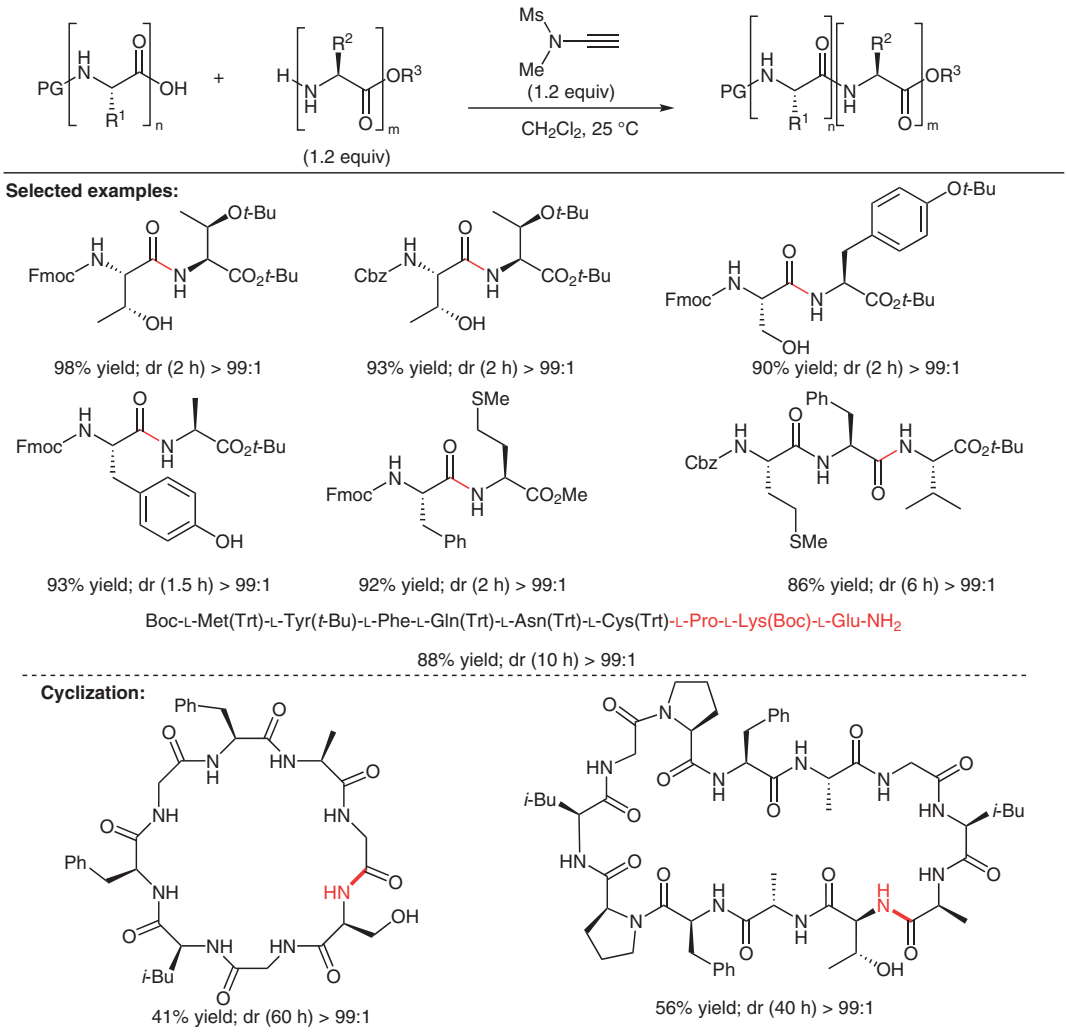
S. XU, D. JIANG, Z. PENG, L. HU*, T. LIU, L. ZHAO*, J. ZHAO* (GUANGZHOU MEDICAL UNIVERSITY AND NANJING TECH UNIVERSITY, P. R. OF CHINA)

Ynamide-Mediated Peptide Bond Formation: Mechanistic Study and Synthetic Applications
Angew. Chem. Int. Ed. **2022**, *61*, e202212247 DOI: 10.1002/anie.202212247.

Ynamide-Mediated Peptide Synthesis



Significance: The development of promising coupling reagents is important, especially methods that can be used for amino acids that have a reactive functional group, even such as a hydroxyl group, without protecting it. The authors have developed an ynamide-mediated peptide-bond formation.

Comment: The ynamides were smoothly formed in the present of *N*-methylynemethanesulfonamide. The ynamides could be used as excellent substrates for peptide-bond formation. Furthermore, the system could be applied to the peptide cyclization.

SYNFACTS Contributors: Hisashi Yamamoto, Tomohiro Hattori
Synfacts 2023, 19(01), 0099 Published online: 16.12.2022
DOI: 10.1055/s-0042-1752372; **Reg-No.:** H00423SF

Category
Peptide Chemistry
Key words
ynamides
cyclization
***N*-methylyne-methanesulfonamide**

Synfact of the Month