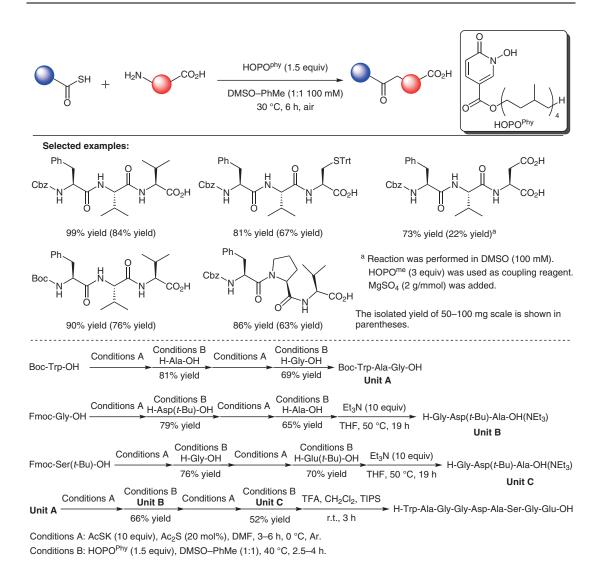
T. TATSUMI, K. SASAMOTO, T. MATSUMOTO, R. HIRANO, K. OIKAWA, M. NAKANO, M. YOSHIDA, K. OISAKI*, M. KANAI* (THE UNIVERSITY OF TOKYO AND NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST), IBARAKI, JAPAN)

Practical N-to-C Peptide Synthesis with Minimal Protecting Groups *Commun. Chem.* **2023**, 6, 231 DOI: 10.1038/s42004-023-01030-0.

Atom-Economical N-to-C Peptide Elongation



Significance: With growing applications of peptides, the development of efficient and atom-economical methods for their synthesis is highly desirable. The authors have demonstrated a sequence peptide elongation using unprotected amino acids or peptides with low waste.

Comment: The peptide synthesis, which proceed by N-to-C elongation, is performed in an atom-economical way and the only wastes produced are water and elemental sulfur. Furthermore, the strategy could be applied for nonapeptide synthesis.

SYNFACTS Contributors: Hisashi Yamamoto, Tomohiro Hattori Synfacts 2024, 20(02), 0211 Published online: 16.01.2024 **DOI**: 10.1055/s-0043-1763667; **Reg-No**.: H01324SF

Peptide Chemistry

Key words

N-to-C peptide elongation

atom economy

nonapeptide synthesis

