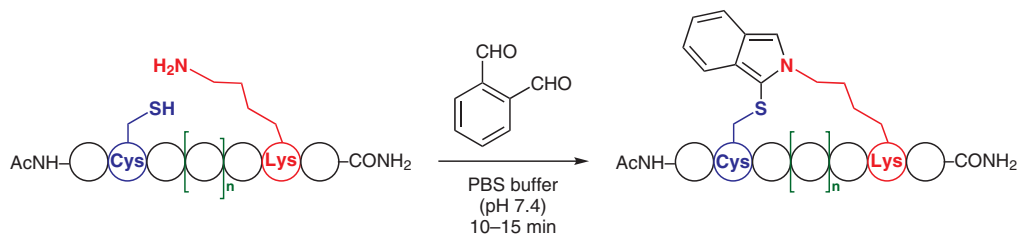


Y. ZHANG, Q. ZHANG, C. T. T. WONG, X. LI* (THE UNIVERSITY OF HONG KONG, P. R. OF CHINA)

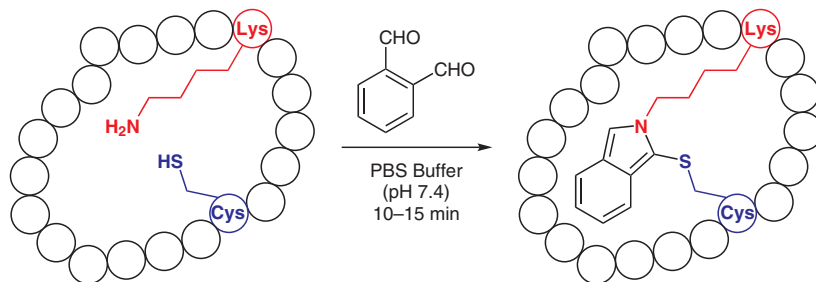
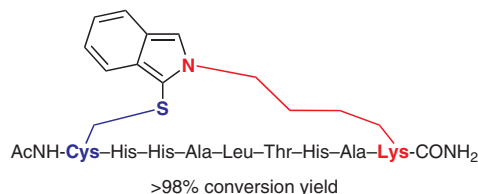
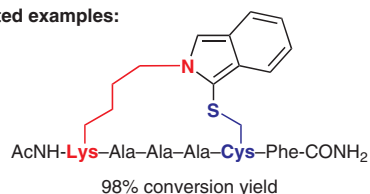
Chemoselective Peptide Cyclization and Bicyclization Directly on Unprotected Peptides

J. Am. Chem. Soc. **2019**, *141*, 12274–12279.

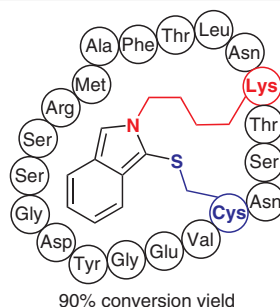
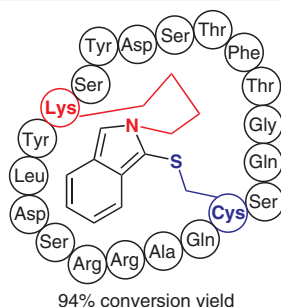
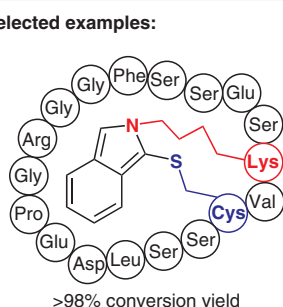
Synthesis of Cyclic and Bicyclic Peptides



Selected examples:



Selected examples:



Significance: Due to their unique properties, cyclic peptides and their synthesis have received considerable attention from medicinal chemists. The authors have developed an *ortho*-phthalaldehyde-guided chemoselective cyclization of unprotected peptides.

Comment: This cyclization reaction for the synthesis of cyclic and bicyclic peptides is guided successfully by *ortho*-phthalaldehyde. The target compounds are obtained in high conversion yields with excellent chemoselectivity.

SYNFACTS Contributors: Hisashi Yamamoto, Wataru Muramatsu

Synfacts 2019, 15(11), 1323 Published online: 18.10.2019

DOI: 10.1055/s-0039-1619006; Reg-No.: H09619SF

© 2019, Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

Category

Peptide Chemistry

Key words

cyclic peptides

directing groups

phthalaldehyde

Synfact
of the
Month

This document was downloaded for personal use only. Unauthorized distribution is strictly prohibited.