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Solid-Phase Synthesis of Disulfide Heterodimers of Peptides

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Conjugation of Two Peptides via Disulfide Linkage

Significance: Nonsymmetric intermolecular disulfide bridges might be advantageous for peptide conjugation in the light of their solubility in a solvent. The authors report an orthogonal disulfide template synthesis, and its application in hydrophobic cell-penetrating peptides.

Comment: The disulfide template could be conjugated with a hepta-arginine segment and LXXL-motif-containing peptides by using such coupling reagents as BOP or HOBt. After the cleavage of the resin from the peptides, polypeptides containing two kinds of peptides conjugated through a disulfide linkage were obtained.

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