

## Self-synthesizing models of helical proteins based on aromatic disulfide chemistry.

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A new method of synthesis of peptide conjugates with aromatic moieties substituted with two sulfhydryl groups at 1,3-positions is proposed. Amphiphilic peptides derivatized in such a way under oxidative conditions spontaneously form cyclic, covalent trimers and tetramers dominated by  $\alpha$ -helical conformations. The tendency to form tri- or tetrahelical bundles depends on sequences of the peptides and on the oxidation conditions, pH, and additives.

### Słowa kluczowe

combinatorial chemistry, helical structures, peptides, self-assembly, template synthesis

### Adres publiczny

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### Strona internetowa wydawcy

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