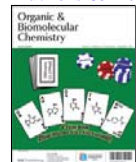


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Finn K. Hansen, Khanh Ha, Ekaterina Todadze, Aaron Lillicotch, Alexander Frey and Alan R. Katritzky

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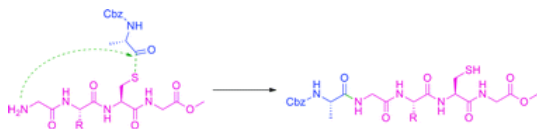
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An efficient approach for the synthesis of a series of *S*-acyl peptides containing internal cysteine residues has been developed and the chemical long-range ligation of these *S*-acyl peptides via 5-, 8-, 11- and 14-membered cyclic transition states has been investigated. Our results include the first examples of successful isopeptide ligations starting from *S*-acyl peptides containing non-terminal cysteine residues and indicate that the cyclic transition states studied in this present paper are decreasingly favored in the order of their sizes 5 >> 14 > 11 >> 8.

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