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Study of Chemical Ligation Via 17-, 18- and 19-Membered Cyclic Transition States

By: Panda, SS (Panda, Siva S.)^[1]; El-Nachef, C (El-Nachef, Claudia)^[1]; Bajaj, K (Bajaj, Kiran)^[1]; Al-Youbi, AO (Al-Youbi, Abdulrahman O.)^[2]; Oliferenko, A (Oliferenko, Alexander)^[1]; Katritzky, AR (Katritzky, Alan R.)^[1,2]

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Abstract

Unprotected S-acylated cysteine isopeptides containing alpha-, beta- or gamma-amino acid units have been synthesized, and their conversion to native hexapeptides by S- to the N-terminus ligations involving 17-, 18- and 19-membered cyclic transition states have been demonstrated both experimentally and computationally to be more favorable than intermolecular cross-ligations.

Keywords

Author Keywords: acyl migration; ligation; molecular modeling; peptide

KeyWords Plus: GLYCOPEPTIDE SYNTHESIS; STAUDINGER LIGATION; CONTAINING PEPTIDES; DERIVATIVES; VALINE; DIMER

Author Information

Reprint Address: Katritzky, AR (reprint author)

+ Univ Florida, Dept Chem, Ctr Heterocycl Cpds, Gainesville, FL 32611 USA.

Addresses:

+ [1] Univ Florida, Dept Chem, Ctr Heterocycl Cpds, Gainesville, FL 32611 USA

- [2] King Abdulaziz Univ, Dept Chem, Jeddah 21589, Saudi Arabia

Organization-Enhanced Name(s)

King Abdulaziz University

E-mail Addresses: katritzky@chem.ufl.edu

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