P. DESAI, S. S. PFEIFFER, D. L. BOGER* (THE SCRIPPS RESEARCH INSTITUTE, LA JOLLA, USA)

Synthesis of the Chlorofusin Cyclic Peptide: Assignment of the Asparagine Stereochemistry


Chlorofusin Cyclic Peptide Synthesis

Significance: Cyclic peptides with unique molecular topologies have attracted attention from the fields of biochemistry and medicinal chemistry. In 2003, Boger and co-workers synthesized the cyclic peptide of chlorofusin, consisting of nine amino acid residues.

Comment: The nine amino acids were assembled from four subunits. Subsequent cyclization using coupling reagents proceeded smoothly to give the 27-membered macrocycle in a moderate yield.