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3.3.2 Isosteres of Aspartic Acid and Glutamic Acid; 3.3.3 Tethered -Amino Acids: Constraining the x-Space; 3.4 Dipeptide Isosteres; 3.4.1 -Amino Acids; 3.5 Tripeptide Isosteres; 3.6 Conclusion; References; Chapter 4 Solid-Phase Synthesis and Combinatorial Approaches to Peptidomimetics; 4.1 Introduction; 4.2 Solid-Phase Synthesis of Peptidomimetics; 4.2.1 Scaffolds from -Amino Acids; 4.2.2 Scaffolds from Amino Aldehyde Intermediates; 4.2.3 Pyrrolidine-Containing Scaffolds; 4.3 Conclusion; References
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8.2.1 3-Substituted Proline Derivatives

Sommario/riassunto

"A peptidomimetic is a small protein-like chain designed to mimic a peptide with adjusted molecular properties such as enhanced stability or biological activity. It is a very powerful approach for the generation of small-molecule-based drugs as enzyme inhibitors or receptor ligands. Peptidomimetics in Organic and Medicinal Chemistry outlines the concepts and synthetic strategies underlying the building of bioactive compounds of a peptidomimetic nature. Topics covered include the chemistry of unnatural amino acids, peptide- and scaffold-based peptidomimetics, amino acid-side chain isosteres, backbone isosteres, dipeptide isosteres, beta-turn peptidomimetics, proline-mimetics as turn inducers, cyclic scaffolds, amino acid surrogates, and scaffolds for combinatorial chemistry of peptidomimetics. Case studies in the hit-to-lead process, such as the development of integrin ligands and thrombin inhibitors, illustrate the successful application of peptidomimetics in drug discovery"--
"Peptidomimetics in Organic and Medicinal Chemistry outlines the concepts and synthetic strategies underlying the building of bioactive compounds of a peptidomimetic nature"--
