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Traceless Solid-Phase Synthesis of Chiral 3-Aryl β-Amino Acid Containing Peptides Using a Side-Chain-Tethered β-Amino Acid Building Block

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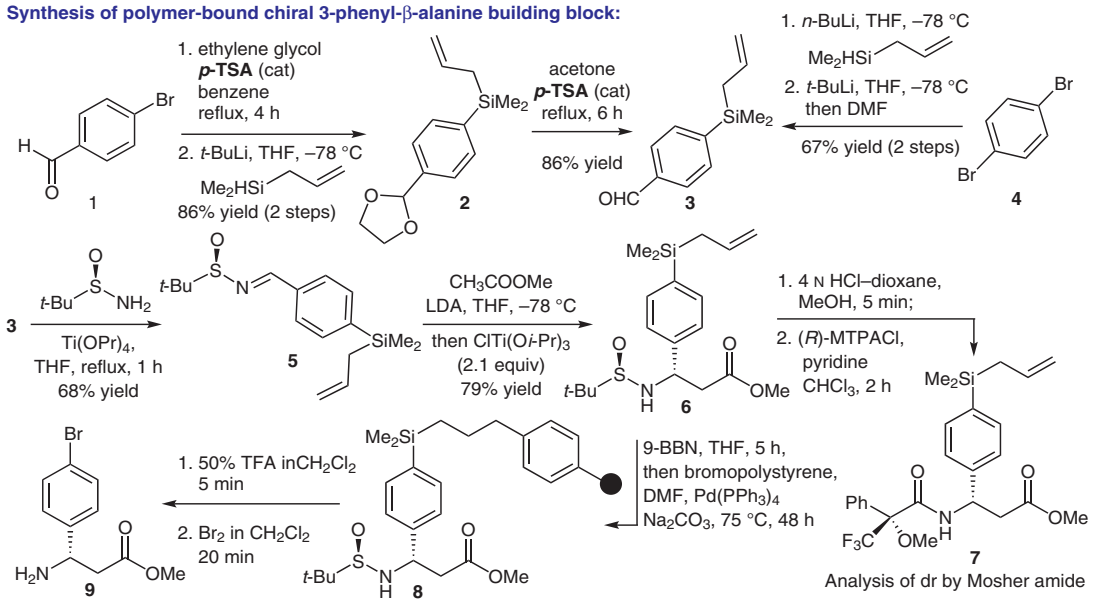
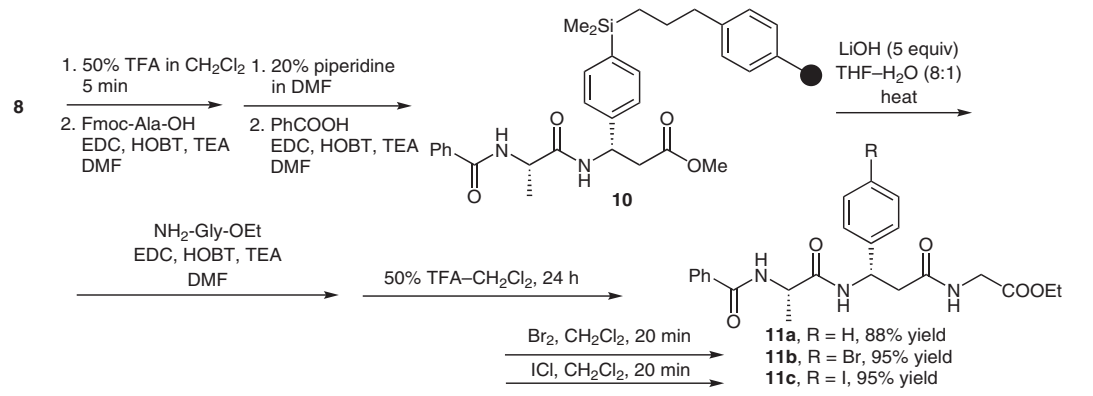
# Synthesis of a Side-Chain-Tethered Solid Support for Peptide Synthesis




**Significance:** Silicon-linked solid supports play a major role in peptide syntheses because of the ease with which silicon-based linkers can be attached and detached. In 2000, Lee and Silverman developed silicon-linked side-chain-tethered β-amino acid building blocks for peptide synthesis.

**Comment:** The silicon-linked side-chain-tethered β-amino acid building blocks were synthesized in good yields. The synthesized support permits the elongation of a peptide chain at both its C-terminal and N-terminal directions. Furthermore, it can be used for the synthesis of 3-aryl-β-alanine-containing tripeptides in good yields.

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**Category**
Peptide Chemistry

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solid-phase peptide synthesis
silicon-linked solid support
β-amino acids