Category

Peptide Chemistry

Key words

solid-phase synthesis

selenium-linked solid support

AM-toxins

dehydropeptides

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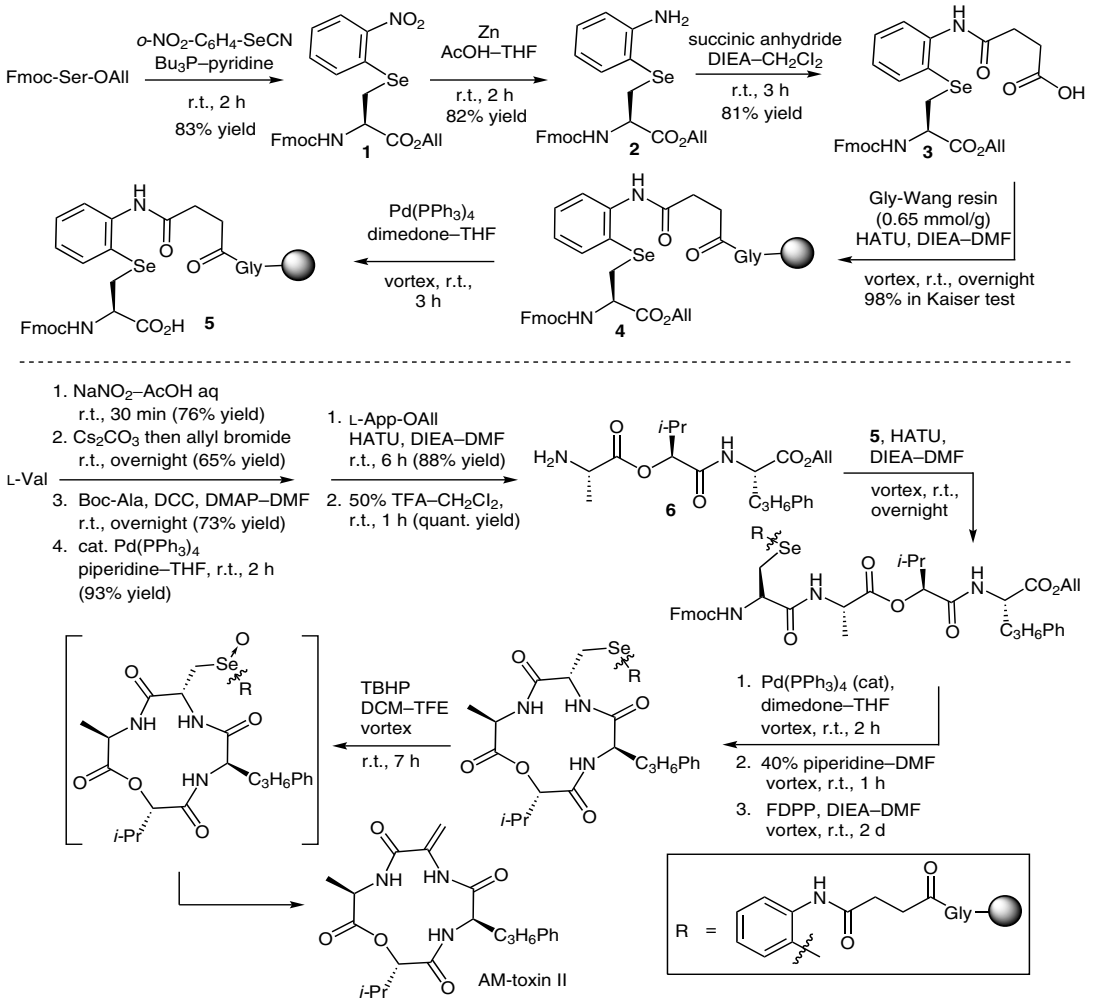
Solid-Phase Synthesis of Dehydropeptide, AM-Toxin II, Using a Novel Selenyl Linker by Side-Chain Tethered Strategy
Tetrahedron Lett. **2001**, *42*, 8337–8339, DOI: 10.1016/S0040-4039(01)01790-7.

Selenium Solid Support for the Synthesis of AM-Toxin II



Significance: Side-chain-tethered solid supports are among the critical tools required for solid-phase peptide synthesis. In 2001, Nakamura and co-workers developed an efficient solid-phase route for the synthesis of the cyclic dehydrodepsipeptide AM-toxin II, with the help of a selenium-linked solid support.

Comment: AM-toxin II was successfully synthesized with the help of a selenium-linked solid-support-assisted peptide chain elongation, cyclization, and oxidation sequence. This strategy can also be used for the synthesis of unsaturated amino acids or peptides.

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