Category

Peptide Chemistry

Key words

acridine–peptide conjugates

acridone carboxylic acid

solid-phase synthesis

combinatorial chemistry

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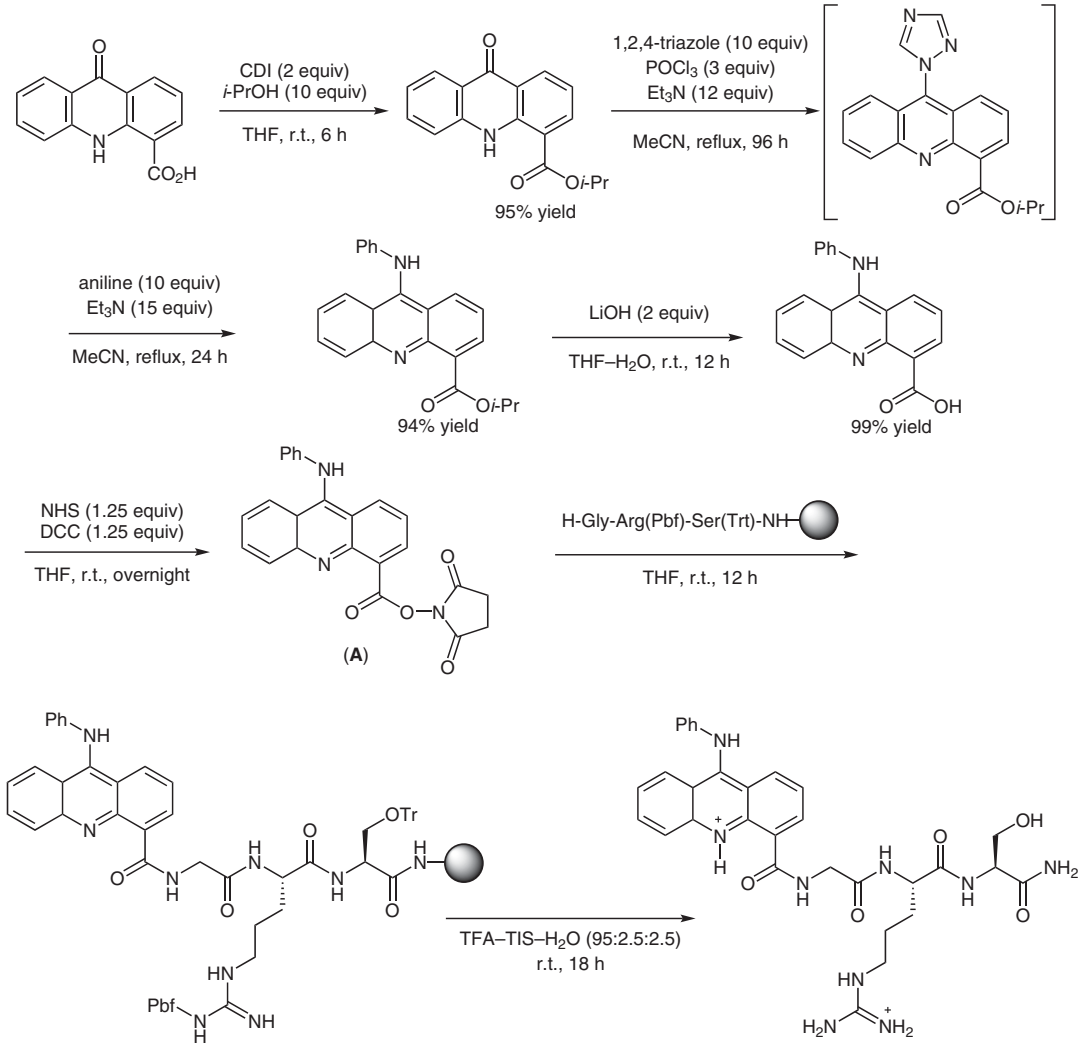
Solid-Phase Synthesis of Acridine–Peptide Conjugates and Their Analysis by Tandem Mass Spectrometry
Org. Lett. **2000**, *2*, 1465–1468.

Acridine–Peptide Conjugates by Solid-Phase Synthesis



Significance: With the growing range of applications of long-chain peptides, such as proteins, the development of appropriate analytical techniques is highly desirable. In 2000, Carlson and Beal prepared combinatorial libraries of acridine–peptide conjugates that could be helpful for the discovery of structure-specific nucleic acid ligands by affinity chromatography with mass spectrometry.

Comment: 9-Acridone-4-carboxylic acid was functionalized with aniline via a 9-triazolylacridine intermediate, and the product was used to synthesize acridine–peptide conjugates by solid-phase synthesis. The structures of the products could be determined from samples of less than 10 pmol by tandem mass spectrometry.

SYNFACTS Contributors: Hisashi Yamamoto, Tomohiro Hattori
Synfacts 2020, 16(05), 0614 Published online: 20.04.2020
DOI: 10.1055/s-0040-1707588; **Reg-No.:** H05320SF