Thionyl Fluoride-Mediated Peptide Synthesis

**Significance:** The development of new methods for the synthesis of peptides is highly desirable for the discovery of peptide drugs. The authors have developed a novel method for the generation of \( \text{SOF}_2 \) *ex situ*, and its use in the activation of amino acids in a peptide-coupling strategy for peptide synthesis.

**Comment:** The peptide-coupling reaction using *ex situ*-generated \( \text{SOF}_2 \) proceeded smoothly to afford the desired peptides in high yields and with excellent selectivities. Inexpensive and readily available chemicals were used in the synthesis of \( \text{SOF}_2 \). The method was also applied in liquid-phase syntheses of tri-, tetra-, and decapeptides.