Divergent Solid-Phase Synthesis of Natural Product-Inspired Bipartite Cyclodepsipeptides: Total Synthesis of Seragamide A

**Significance:** The authors present the first total synthesis of seragamide A (isolated from the sponge Suberites japonicus Thiele in 2006) via a solid-phase synthesis–cyclorelease strategy utilizing relay-ring-closing metathesis. Starting from resin (E/Z)-1, the precursor (E/Z)-2 was prepared in seven steps. Relay-ring-closing metathesis of (E/Z)-2 proceeded in the presence of [RuCl2(SIMes)(PCy3)(=CHPh)] (3) to give (E/Z)-6 in 34% yield based on (E/Z)-1 as a mixture of separable isomers. Treatment of (E)-6 with TFA followed by TBAF provided (E)-7 (seragamide A) in 65% yield (based on the crucial ring-closing step). Similarly, (Z)-6 was converted into (Z)-7 in 59% yield.

**Comment:** The present synthetic protocol was also applied to the preparation of a collection of structurally diverse cyclodepsipeptides using various peptides (9 examples) and ketide segments (4 examples).