Native Chemical Ligation by Microflow Chemistry

Significance: The authors reported a fast and highly efficient intramolecular cyclization of peptides with native chemical ligation under homogeneous microfluidic conditions, in which the formation of highly active S-[2-[(2-sulfanylethyl)amino]-ethyl] peptidyl thioesters is a key step.

Comment: This scale-independent microfluidic native chemical ligation proceeds rapidly, even for difficult junctions, and realizes an expedient preparation of bioactive macrocyclic peptides.