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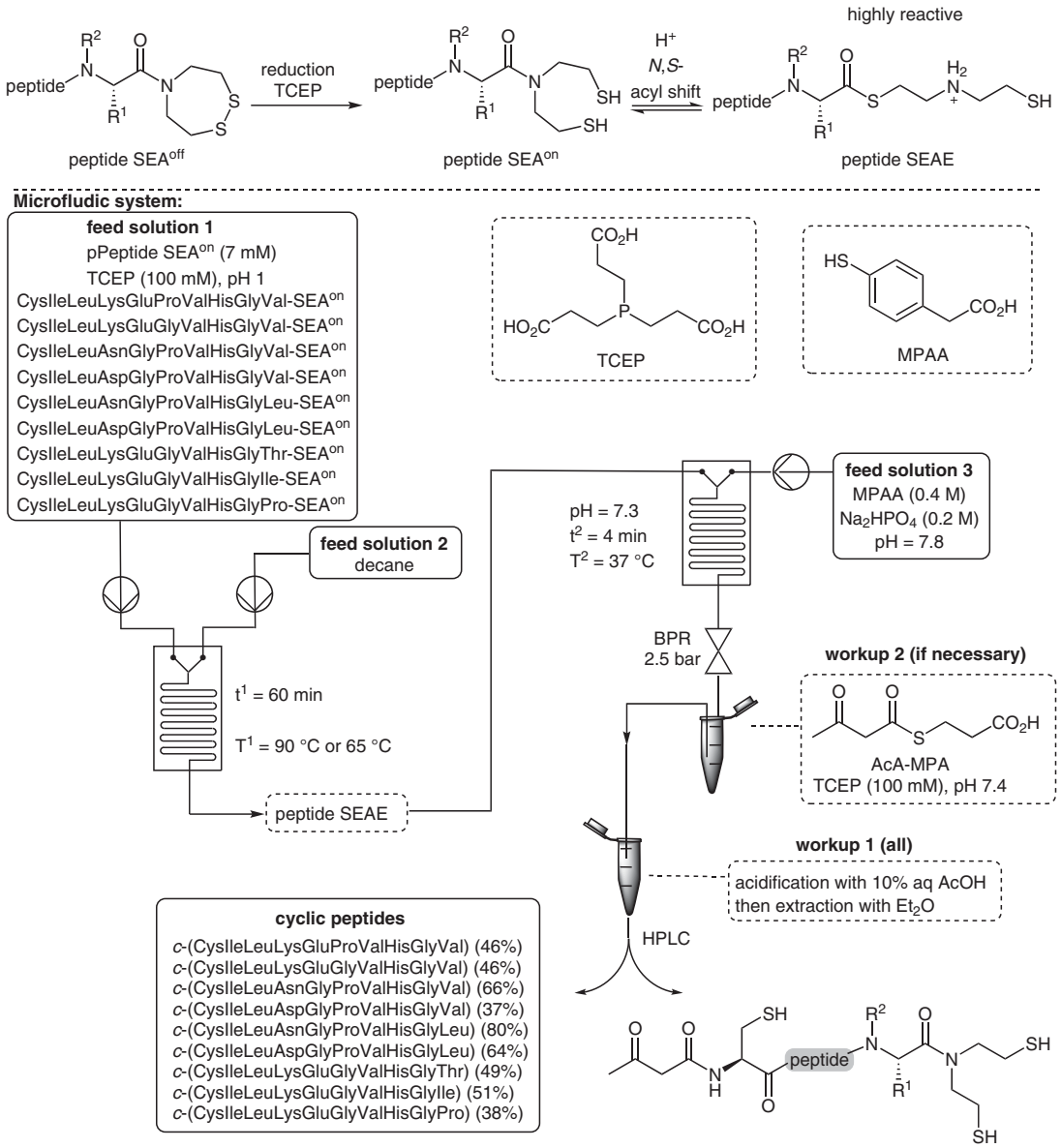
Accelerated Microfluidic Native Chemical Ligation at Difficult Amino Acids toward Cyclic Peptides
Nat. Commun. **2018**, *9*, 2847.

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.

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Synfacts 2019, 15(02), 0203 Published online: 18.01.2019
DOI: 10.1055/s-0037-1611960; **Reg-No.:** H17518SF

Category
Peptide Chemistry

Key words
native chemical ligation
cyclic peptides
microflow reaction
flow synthesis
thioesters