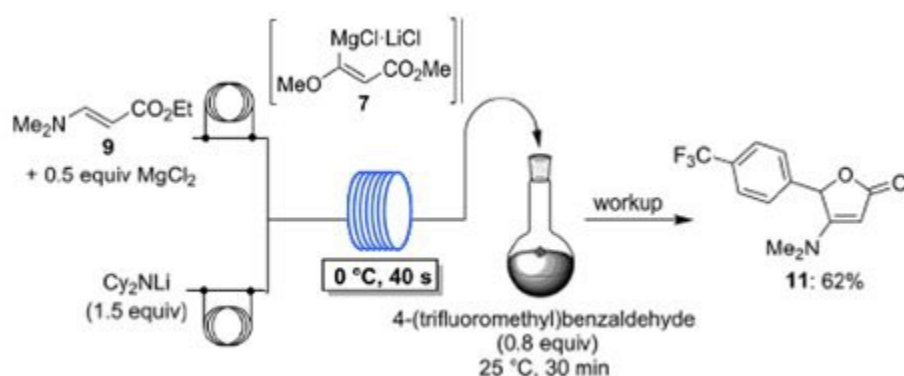


Publication 48: Lithium Dicyclohexylamide - Practical and Economic Lithiations of Functionalised Arenes and Heteroarenes in Flow



The economic amide base lithium dicyclohexylamide (Cy₂NLi) allows fast and convenient (40s, 0°C) in situ trapping flow metalations of a broad range of functionalized arenes, heteroarenes and acrylate derivatives in the presence of various metal salts (ZnCl₂·2LiCl, MgCl₂, LaCl₃·2LiCl).

The resulting Zn-, Mg- or La-organometallic intermediates are trapped with various electrophiles in high yields.

These flow metalations are easily scaled-up without further optimization.

[M. R. Becker, M. A. Ganiek and P. Knochel, Chem. Sci., 2015, 6, 6649](#)