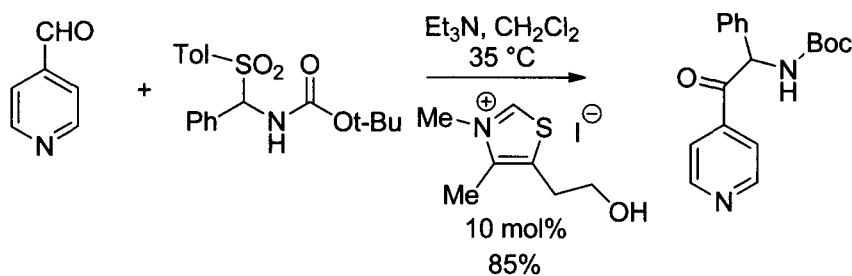


8.3.6 Use of α -Amido-Ketones

From a disconnection perspective, the use of α -amido ketones is appealing for many functionalized imidazoles. However, it sometimes suffers from many steps and poor overall yields. Much development work has gone into the preparation of the amido-ketone. For example, the Merck group has published the preparation of substrates for cyclization using a Stetter-like multicomponent coupling reaction (MCR).²⁴



After the excellent development work on the process to prepare the α -amido-ketone, the work was further stretched into the one-pot synthesis of imidazole. This method proved somewhat general and gave good yields of many 4,5-di-substituted imidazoles.²⁵

