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Convenient Synthesis of α -Trifluoromethylated Acylolins From α -Hydroxy or α -Amino AcidsMasami Kawase (河瀬雅美)¹, Setsuo Saito¹, and Teruo Kurihara²¹Faculty of Pharmaceutical Sciences, Josai University, Saitama, Japan;²Faculty of Science, Josai University, Saitama, Japan.

Abstract. α -Trifluoromethylated acylolins (2 and 6) have been prepared from α -hydroxy acids (1), *N*-acylprolines (5) or *N*-acyl-*N*-alkyl α -amino acids (8) by novel transformation reactions with trifluoroacetic anhydride (TFAA) in the presence of pyridine. The former reaction of 1 could proceed through mesoionic 1,3-dioxolium-4-olates, whereas the latter two reactions of α -amino acids (5 and 8) could involve mesoionic 1,3-oxazolium-5-olates. The reaction of 1 with TFAA shows more potential for practical applications because of the ready availability of the starting materials and ease of manipulation.

