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Stereoselective Oxidative Bioconjugation of Amino Acids and Oligopeptides to Aldehydes

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Coupling of Amino Acids and α -Branched Aldehydes

^a dr was determined by ¹H NMR analysis of isolated product.

^b dr was determined by ¹H NMR analysis of crude reaction mixture.

Significance: The synthesis of modified amino acids is significant in the pharmaceutical industry and in medicinal chemistry. The authors used a metal-free oxidative bioconjugation method to couple amino acids and aldehydes.

Comment: Various amino acid esters are synthesized from amino acids and α -branched aldehydes. The yields of the reactions were moderate to good, and the stereoselectivities were good.

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Peptide Chemistry

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