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A simple and efficient procedure for synthesis of optically active 1,3,4-oxadiazole derivatives containing L-amino acid moieties

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Abstract: Some new unsymmetrical and optically active 2,5-disubstituted 1,3,4-oxadiazoles 5a-j were efficiently synthesized by cyclization reaction of diacylhydrazides 4a-j. The synthesis of the title compounds was achieved by the reaction of acyl hydrazides 3a-b and N-phthaloyl-L-amino acids 1a-e in the presence of the phosphoroxo chloride (POCl₃) as an anhydrous reagent.



Key Words: N-phthaloyl-L-amino acid, 1,3,4-oxadiazole, diacylhydrazide, pyridoyl hydrazide, phosphoroxo chloride

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