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➤ ORAL PRESENTATION

Synthesis of new amide derivatives

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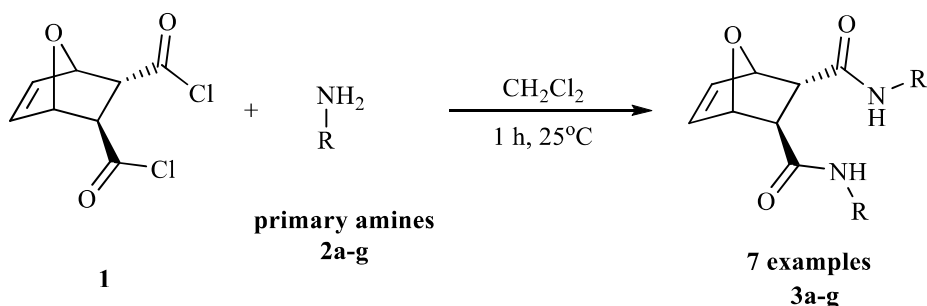
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Abstract

The amide group is one of the most important group in organic chemistry because they possess extensive biological activities like antifungal, antioxidant etc¹. Also, they can be used as a precursor for synthesis of drugs, plastics, agrochemicals or other significant structures like Atorvastatin and Valsartan that known drugs in the market². Thus, develop a new and efficient methods for synthesis of amides are one of the most important topic in academia^{3,4}.

In a preliminary study, (1R,2R,3S,4S)-7-oxabicyclo[2.2.1]hept-5-ene-2,3-dicarbonyl dichloride⁵ was synthesized by the Diels-Alder reaction between furan and fumaryl chloride in high yield. Then 1 eq. starting compound **1** was reacted with 2 eq. different primary amin derivatives **2a-g** and, substituted diamides were obtained with good yield **3a-g** (Scheme 1). All structures were characterized by ¹H-NMR, ¹³C-NMR, COSY, HSQC, LC-MS and IR spectroscopy.



Keywords: Diels-Alder Reactions, Amines, Amides.

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