Synthesis of Some New Furocoumarins and their Usage in Peptide Synthesis

Eman M. Keshk\textsuperscript{a}, Emad M. El-Telbani\textsuperscript{b}, and H. Abdel-Rahman\textsuperscript{a}

\textsuperscript{a} Faculty of Science, Chemistry Department, Mansoura University, Egypt
\textsuperscript{b} National Research Center, Pesticides Department, Dokki, Giza, Cairo, Egypt

Reprint requests to Prof. Dr. A. H. Abdel-Rahman. E-mail: Scimchmdept@mans.edu.eg

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1,5-Benzodiazepin-2-ones (3\textsubscript{a–d}) were obtained from $\omega$-carbethoxy visnaginone or $\omega$-carbethoxy khellinone and substituted 1,2-phenylenediamines. Reactions of active nitriles such as malononitrile and ethyl cyanoacetate with substituted 6-dimethylaminomethylene furocoumarins (4\textsubscript{a,b}) are described. Additionally, reaction of substituted 6-dimethylaminomethylene furocoumarins with different amino acids gave furochromen-6-ylidenemethyl amino acids (7 – 9). Compound 7 was coupled with glycine ethyl ester to form amino acetic acid ethyl ester (10).

\textbf{Key words:} Furocoumarins, Enaminones, Amino Acids