REACTIONS OF 4-HYDROXY-2H-1,4-BENZOXAZIN-3-ONE DERIVATIVES WITH SOME NUCLEOPHILES

Yuichi Hashimoto, Toshiharu Ohta, Koichi Shudo, and Toshihiko Okamoto Faculty of Pharmaceutical Science, University of Tokyo

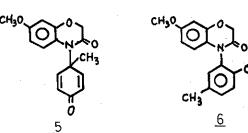
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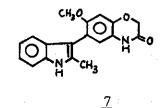
Reactions of 4-hydroxybenzoxazin-3-one($\underline{1}$), 4-hydroxy-7-methoxybenzoxazin-3-one($\underline{2}$) and their 0-acetates($\underline{3}$),($\underline{4}$), with various nucleophiles were examined.

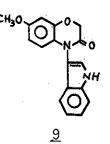
R Н н <u>2</u> СН₃О Н <u>3</u> Н. СН₃СО CH₃O CH_aCO

 $\underline{1}$ and its acetates($\underline{3}$) reacted with acetate or chloride under various conditions giving 6- and 7-acetoxy- or chloro-benzoxazin-3-one.

The acetate $(\underline{4})$ is very reactive, and rapidly reacted with phenol, cresols, indoles, and ethanthiol. The reaction products were analyzed. Some interesting reaction products $(\underline{5}-\underline{9})$ were shown below. These reations suggest that phyto-alexins, 2,4-dihydroxybenzoxazin-3-one and 2,4-dihydroxy-7-methoxybenzoxazin-3-one, can be electrophilic chemicals.







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