THE REACTION OF 5-BENZALIMINO-1,2,4-TRIAZOLES WITH SUBSTITUTED ACETYL-CHLORIDES

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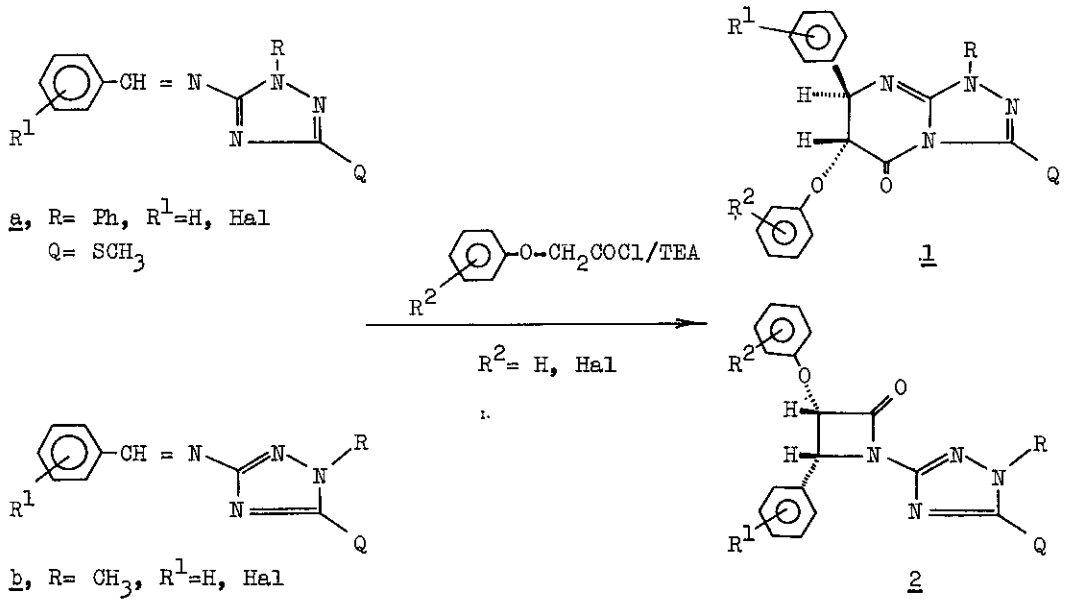
The reaction of a type 1-R-3-Q-5-benzalimino-1H-1,2,4-triazoles (1) with aryl-oxyacetyl-chlorides in the presence of triethylamine lead to the formation of 1 type 1,2,4-triazolo(1,5-a)pyrimidinone derivatives, while the analogues b type 2-R-3-Q-benzalimino-2H-1,2,4-triazoles (1) formed in the above reaction 2 type β-lactam derivatives.



a, R= Ph, R^1=H, Hal
Q= SCH_3

1

b, R= CH_3, R^1=H, Hal
Q= SCH_3, morpholino

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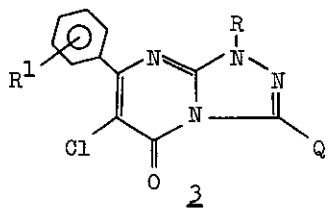
In the analogues reaction provided with the mixture of dichloroacetic acid and phosphorous oxychloride derivatives 3 and 4 were formed from derivatives a and b, respectively.



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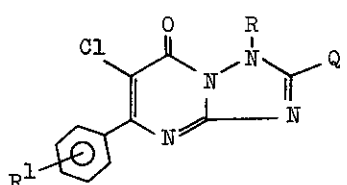

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Paper deals with the structure-elucidation of derivatives 1 - 4.

Reference:

(1) J. Reiter et al. J. Heterocycl. Chem. 19, 1157-64 (1982)