RING TRANSFORMATION OF 1,3-THIAZINONES WITH HYDRAZINES

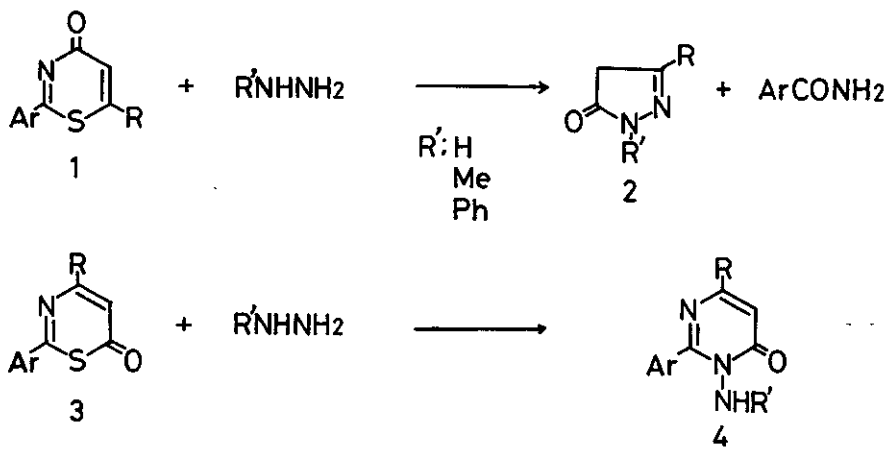
Y. Yamamoto, Y. Azuma, Y. Morita, and S. Ohnishi

Tohoku College of Pharmacy

Sendai 983, Japan

We have previously reported that 1,3-oxazin-4-ones undergo the ring contraction with hydrazines into 1,2,4-triazole derivatives.[1] In view of the interest in comparison with the 1,3-oxazin-4-ones, the reactions of 1,3-thiazin-4-ones and -6-ones with hydrazines were investigated.

1,3-Thiazin-4-ones (1) were readily transformed into pyrazolones; 1,3-thiazine 1 was allowed to react with hydrazines in ethanol at room temperature, yielding pyrazolones (2) and carboxamides. On the other hand, similar treatment of 1,3-thiazin-6-ones (3) afforded N-aminopyrimidin-6-ones (4) in good yields. The pathways of the ring transformations of 1 and 3 are detailed.



1) Y. Yamamoto, Y. Azuma, and K. Miyakawa, *Chem. Pharm. Bull.*, 26, 1825 (1978).