

Note II. The synthesis of some nitrogen and sulfur containing heterocyclic compounds using α , β -unsaturated thioamides as precursors [1].

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Abstract This paper deals with some results concerning the extension of Hartmann and Liebscher-Hofmann cyclooxidative reactions of aromatic thioamides to α,β -unsaturated thioamides, with the object of aromatic cyclic five members ring systems synthesis. New compounds of 3,5-disubstituted-1,2,4-thiadiazoles and 3,5-disubstituted-1,2,4-dithiazolium salts (iodides and perchlorates) types were obtained. Our results show that linking of thioamides group by help of vinyl group did not modified the cyclooxidative reaction.

Keywords: α,β -unsaturated thioamides, 3,5-disubstituted-1,2,4-thiadiazoles, 3,5-disubstituted-1,2,4-dithiazolium salts, anticancer activity.
