

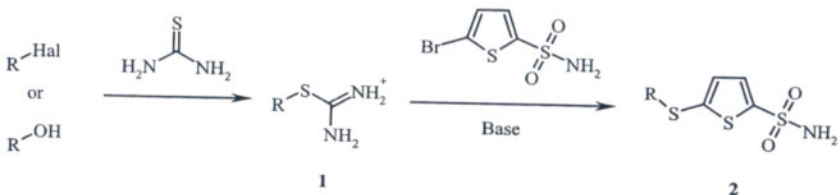
THIOL-FREE PROCEDURE FOR THE SYNTHESIS OF THIOETHERS

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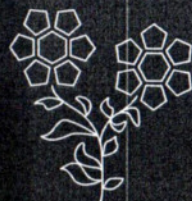
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Zinc-containing enzymes Carbonic anhydrases (CA) are playing an important role in metabolic processes of bicarbonate and carbon dioxide. From presently known 16 CA isoforms, the highest attention is paid to tumor associated CA IX. The vast majority of known CA inhibitors contain sulfonamide moiety as Zn-binding group. Expanding research on new anti-cancer agents we paid our attention to derivatives of thiophene-2-sulfonamide.

Here we report thiol-free procedure for the synthesis of thiophene-2-sulfonamide thioethers **2** based on derivatives of thiouronium salt **1**.



Bioheterocycles



Riga, 2013

XVth International Conference "Heterocycles in Bio-organic Chemistry"

PROGRAM AND ABSTRACT BOOK

Riga, Latvia

May 27th – 30th, 2013

www.bioheterocycles.eu



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