

10th International Carbonic Anhydrase Conference

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BOOK OF ABSTRACTS

P7: SACCHARIN DERIVATIVES AS POTENTIAL INHIBITORS OF CARBONIC ANHYDRASES

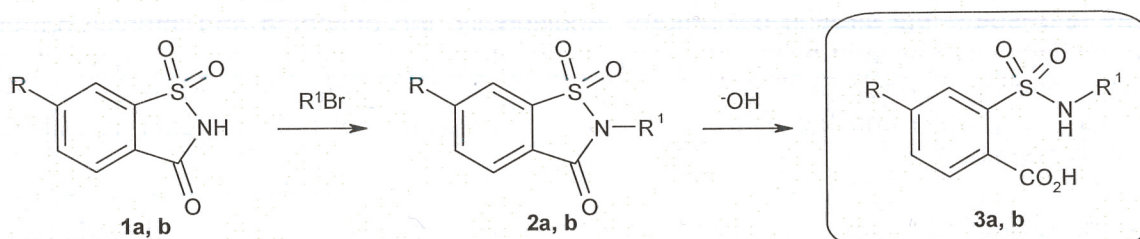
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Zinc containing enzymes carbonic anhydrases (CAs) are considered to be interesting targets for the design of pharmacological agents suitable for the treatment of various diseases.

The aim of this project was to synthesize a series of 2-alkylsaccharins **2a** and 2-alkyl-6-sulfamoylsaccharins **2b** and carry out their hydrolysis reaction in order to prepare substituted mono- and disulfamoylbenzoic acid derivatives **3a** and **3b** and determine their CA inhibitory activity.



a: R = H, **b:** R = SO_2NH_2
 R^1 = Alkyl

The synthesis and CA screening results of substituted saccharins and sulfamoylbenzoic acids will be discussed.

Acknowledgements:

