

Sulfonylamide Derivatives of L-Ephedrin

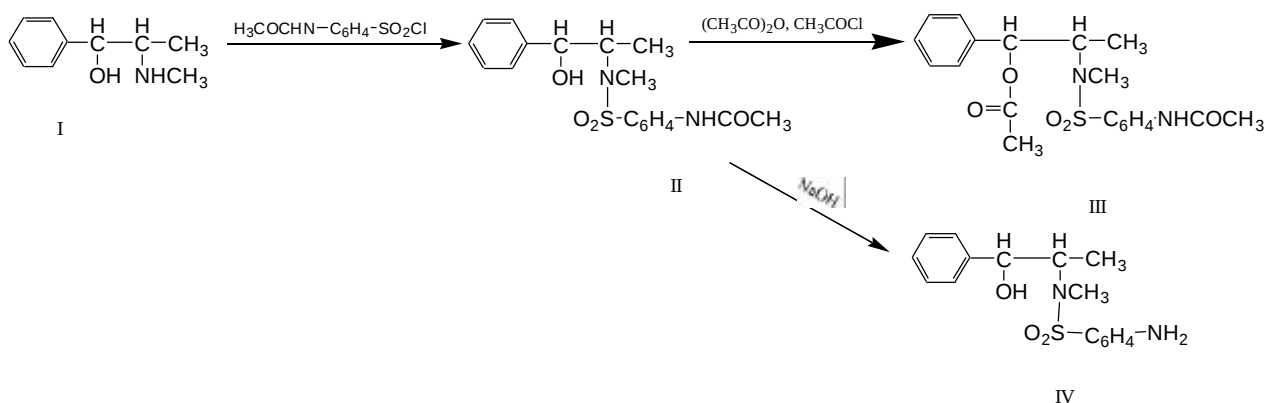
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The introduction of new pharmacophoric fragments into the structure of natural alkaloids is a very promising direction in the creation of physiologically active compounds. The chemical modifications of l-ephedrin molecule (I) had continued, the it's sulfochlorination reaction had studied. As acyl reagent was used the chloranhydride of p-acetylsulfanilic acid to obtain l-phenil –2-[N-methyl-N-(N-acetylbenzoylsulfonyl)-amino]-propanol (II) with the yeild of 51%.



The interaction of the mixture of acetyl anhydride and acetylchloride with the compound (II) had led to diacetyl derivative (III). We had studied the conditions of hydrolysis of aminoether (II). It had been determined that the optimum conditions for deacetylation had attained upon alkali hydrolysis, which had resulted the compound (IV).

The composition and structure of synthesised compound (II-IV) had been confirmed by the data of elemental analysis IR, H-, C-NMR-spectroscopy.