



Synthesis, Bioassay and Molecular Modelling Studies of Antioxidants in Ischemic Diseases

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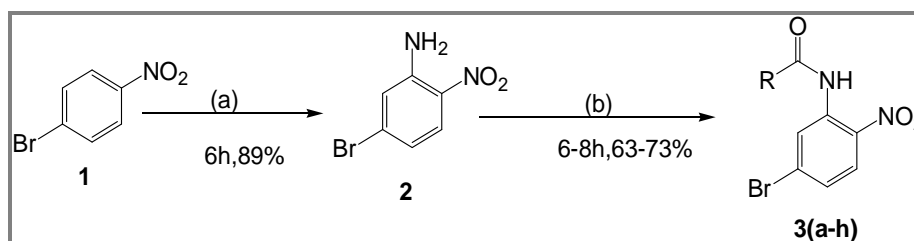
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ABSTRACT

Ischemia disease is a restriction in blood supply to tissues, causing a shortage of oxygen and glucose needed for cellular metabolism. The synthesis and bioassay of “N, N’-substituted urea derivatives” by incorporating appropriate pharmacophore into the molecular framework by suitable chemical manipulations and subsequently to study their biological activity. Here I choose N- substituted urea derivatives as antioxidants.

Graphical Abstract:



(a) $\text{NH}_2\text{OMe.HCl}$, $t\text{-BuOK}$, CuCl , DMF , DME . (b) **3(a-h)**=Different Amines, Triphosgene, TEA, DCM.

Synthesis of different N-substituted urea derivatives.

Keywords: Synthesis, Bioassay and Molecular Modelling Studies of Antioxidants, Ischemic Diseases.