



Design, Synthesis and Characterization of Adducts of Nitrotetralins as Selective D₁ and D₂ Agonists

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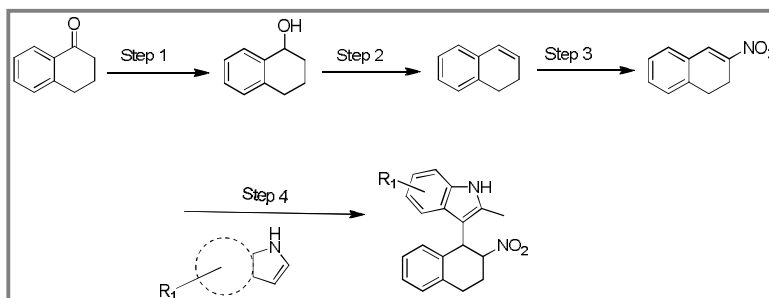
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ABSTRACT

The present work emphasizes the synthesis, characterization of various adducts of nitrotetralins. Eight different nitrotetralins were synthesized and were purified by recrystallization or thin layer chromatographic techniques and were characterized by physical and spectral methods such as LC-MS, ¹H-NMR, and Mass data. Catalyst free aqueous mediated conjugative addition of various indoles at elevated temperature and other substrates to nitrotetralin was described. Most of indole derivatives were distributed widely in nature and possesses various pharmacological activities. In view of this, various indole moieties were used to synthesize nitrotetralin adducts was subject of interest. Biological activity studies to be carried out for the synthesized nitrotetralins as selective D₁ and D₂ agonists.

Graphical Abstract



Synthetic scheme of nitrotetralins

Keywords: Characterization, Nitrotetralins, Spectral methods, and D₁ and D₂ agonists.