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Research Article

Synthesis of some novel biologically potent N-substituted Indole aldehydes from indolealdehyde by Henry reaction

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ABSTRACT

In this paper we are discussing about conversion of indole aldehydes to N-substituted Indole aldehydes and followed by reversibly reproduction of indole aldehydes from substituted indoles by using bases. N-substituted Indole aldehydes are medicinally patents and widely used to cure diseases. The synthesis started with indole-3-aldehyde. In the beginning compound was prepared in situ using Henry reaction of aldehyde with nitro methane in presence of ammonium acetate as a base. Thus, N-benzene sulphonyl protected aldehyde was synthesized from aldehyde using benzene sulphonyl chloride in presence of KOH as a base in DMSO. Now aldehyde was reacted with diamine in methanol at reflux condition deprotection of -N-SO2Ph has taken place instead of cyclization. . The benzyl protected aldehyde was synthesized by using benzyl bromide, NaH in DMF.

Keywords: Indoles, Henry reaction, benzyl bromide, cyclization.

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