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(57) Abstract :

The present invention relates to a method for the synthesis of Schiff bases derived from N2-benzylidenepyridine-2,6-Diamine and Isatin/5-Substituted Isatin, yielding novel compounds with potential medicinal applications. N2-benzylidenepyridine-2,6-Diamine is prepared through refluxing 2,6-diaminopyridine and benzaldehyde in ethanol, while Isatin/5-Substituted Isatin is obtained using the Sandmeyer method. Subsequent reactions involve equimolar mixing of the aforementioned components in ethanol with glacial acetic acid. The solid obtained post-reaction is filtered, washed, dried, and re-crystallized. Thin-Layer Chromatography (TLC) monitors the reactions, and iodine vapor visualization confirms reaction spots. The synthesized Schiff bases exhibit potential anti-inflammatory and antioxidant properties, showing promise for further pharmaceutical exploration. This method provides a systematic approach to generate novel compounds, contributing to advancements in medicinal chemistry and therapeutic development

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