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SYNTHESIS AND CHARACTERIZATION OF (4Z,7E)-4-(2-(4-SALICYLALDEHYDEDIAZENYL)-N-(4-(DIMETHYLAMINO)BENZYLIDENE)BENZENAMINE

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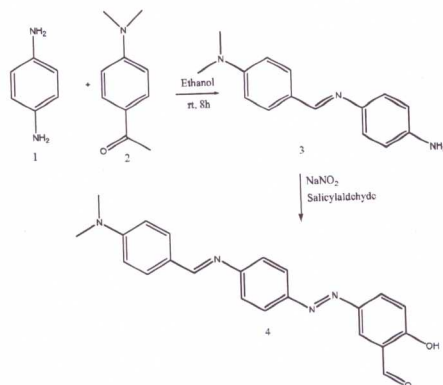
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The new novel azo ligand is expected to exhibit variety of characteristics such as biological and catalytic properties.

The main aim of the present work is to synthesis azoligand derived from N-(4-dimethylamino) benzene-1,4-diamine via diazotization reaction due to their wide range of application as functional dyes and in other industries.

The synthesized ligand was characterized by various physical and chemical methods of analysis such as UV-Vis, FTIR and Spectral studies.

Keywords: Salicylaldehyde, diazotisation, Azo derivative



SYNTHESIS AND BIOLOGICAL EVALUATION OF NOVEL N-ACYL SUBSTITUTED INDOLE-LINKED BENZIMIDAZOLES AND NAPHTHOIMIDAZOLES

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A novel N-acyl substituted indole-linked benzimidazoles and naphthoimidazoles were synthesized. Their chemical structures were confirmed using spectroscopic tools including ¹H-NMR, ¹³C-NMR and CHN-elemental analyses. Anti inflammatory activity for all target compounds was evaluated *in-vitro*. All the synthesized compounds hinder the biofilm formation and control the growth of the pathogen *staphylococcus epidermis*. Anti microbial activity of the compounds was evaluated against both Gram negative and Gram positive bacteria such as *Staphylococcus aureus* (MTCC 2940), *Pseudomonas aeruginosa* (MTCC424), *Escherchia coli* (MTCC 443) and *Enterococcus fecalis*.

Keywords: indole-linked benzimidazoles, indole-linked naphthoimidazoles, Anti inflammatory, biofilm, Anti microbial activity

