

# Synthesis, Characterization and Anti-Microbial Activities of (NE)-N-{(4-Hydroxy-3-Methoxy Phenyl) (Substituted Phenyldiazenyl) Methylene}-4-(3-Nitrophenyl)-5- (Substituted Phenyldiazenyl)Thiazole-2-Amine :( Formazans)

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## ABSTRACT:

The aim and objective of the work was to develop novel Schiff bases and Formazans. Formazans was first prepared many years ago, but today also formazans occupy an important role in pharmaceutical chemistry. They are endowed with a variety of pharmacological activities. In this study (NE)-N-{(4-hydroxy-3-methoxy phenyl) (substituted phenyldiazenyl) methylene}-4-(3-nitrophenyl)-5-(substituted phenyldiazenyl)thiazole-2-amine were synthesized by condensation of various Schiff base and diazonium salt of various substituted aromatic amines. The synthesized compounds were then established on the basis of IR, <sup>1</sup>HNMR spectra and screened for anti-microbial activities.

**Keywords:** Schiff base, formazans, anti-microbial activity