

A Simple Synthesis and Biological Evaluation of Heteroannulated Some Novel Azocine Derivatives

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Abstract: Azocine is the chemical species of unsaturated eight membered heterocyclic ring with nitrogen as hetero atom. The IUPAC name of Azocine is Azacyclooctatetraene. The saturated or partially saturated azocine rings form the core structure of a group of opioid compounds sometimes known as Azocines. Azocine rings are found in many Natural products. The starting compounds for the synthesis of azocine is Ethyl-3-oxobutanoate. The N structural assignments are supported by NMR, IR spectroscopy and chromatography Thin Layer Chromatography and Paper Chromatography. These include cyclazocine, pentazocine and phenazocine. The compounds possessing interesting biological and pharmacological properties as anti-inflammatory, anticancer, anti-bacterial, anti-fungal, anti-viral, antiIndia. arrhythmic, tranquilizing, muscle relaxing and anti-diabetic agents.

Keywords: Azocine, synthesis of azocine derivatives, Physical property, structural conformation and Biological Screening

