



Synthesis of Active Pharmaceutical Ingredient Derivatives And Their Anti-Inflammatory And Analgesic Activity Studies

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ABSTRACT

*Novel series of isoxazoline containing Bis (heterocycle) in combination of imidazole has been synthesized via [3+2] cycloaddition reaction of N- (substituted) methyl-imidazole nitrile oxides with different dipolarophiles. All the newly synthesized compounds were screened for their anti-inflammatory and analgesic activity and were compared with the standard drugs. The compounds exhibited excellent anti-inflammatory and analgesic activity. Out of the compounds studied, compounds **4e** and **4f** showed significant activity comparable to the standard drugs Ibuprofen and Aspirin at the same dose.*

Keywords: Anti-inflammatory, analgesic N-(substituted)imidazolealdehyde, chloramine-T.
