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Synthesis, Anti-inflammatory and Analgesic activity of 4-(Substituted benzylamino)-5-Substituted Phenyl-3-amino-1,2,4-triazole Derivatives

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SUMMARY. A novel series of 4-(substituted benzylamino)-5-substituted phenyl-3-amino-1, 2, 4-triazole derivatives were synthesized by reaction of 5-substituted phenyl-3,4-diamino-1,2,4-triazole with different aromatic aldehydes. The structures of the compounds were synthesized and characterised by elemental analysis, 1H NMR, Mass and IR Spectra. The title compounds were investigated for anti-inflammatory and analgesic activities using carrageenan induced rat paw edema and acetic induced writhing test, respectively. All the test compounds exhibited significant activity, compounds **IVg**, **IVh** and **IVb** showed more potent anti-inflammatory activity when compared with standard (Ibuprofen). All the test compounds were significantly ($p < 0.05$) reduced writhings induced by the acetic acid in mice.

KEY WORDS: 1, 2, 4 triazole, anti-inflammatory activity, Analgesic activity, Carrageenan, Writhing.

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