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Synthesis and SAR Evaluation of Mercaptotriazolo derivatives as anti-inflammatory agents.

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Abstract : A new series of benzothiazole appended triazole derivatives were synthesized. Characterization is done by FT-IR, Mass, ¹H and ¹³C NMR spectroscopic techniques. The newly synthesized compounds were screened for antioxidant and anti inflammatory activities. Experimental data hypothesized compound 7*b* as highly potent cytotoxicant with lengthened activity. Structure–activity relation interrelates the biological activity and chemical moiety of the molecule. Structurally, 7b is a benzothiazolyltriazole having a pyrrolidine group (five membered ring) attached to two CH₂ groups and methyl substituent at 7th position of the benzothiazole ring.

Key words : Benzothiazole ;triazole; anti- inflammation.

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