ABSTRACT

The current research project started with the synthesis of parent compound 5-(4-methoxyphenyl)-4-(4-nitropheny)-4H-1,2,4-triazole-3-thiol by treating synthesized m4-methoxybenzohydrazide and 4-nitrophenylisothiocyanate. For the derivatization of parent triazole it was treated with precursor 2-bromo-N-(2-ethyl-6-methylphenyl)acetamide to form novel compound (N-(2-ethyl-6methylphenyl)-2-((5-(4-methoxyphenyl)-4-(4-nitrophenyl)-4H-1,2,4-triazole)yl)thio)acetamide). The structural elucidation of novel compound was done using spectral techniques ¹H-NMR, ¹³C-NMR. Triazole has gained much pharmacological interest due to extensive and more potent biological activities. The triazole moiety has potential for various biological activities and serve antimicrobial, antifungal and anti-bacterial antiviral, anti cancer, anti-inflammatory anticonvulsant anti-oxidant agent.