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Synthesis and anti-inflammatory activity of 7-Bromo-2–Methyl–4h–Benzo[D][1,3]–Oxazin–4–One and 3–Amino-7-Bromo-2–Methyl Quinazolin 4(3h)–One

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The current study was aimed at the synthesis and anti-microbial evaluation of quinazolinone derivatives. The condensation of Methyl-2-amino-4-bromobenzoate with acetic anhydride yielded the cyclic compound 2-methyl 7-bromo-1, 3-benzo-oxazine-4-one (1) which further produces 3-Amino-2-Methyl 7-bromo quinazolin-4(3H)-ones (2) via the reaction with hydrazine hydrate. The compounds synthesized were unequivocally confirmed by means of infrared, nuclear magnetic resonance (^{1}H and ^{13}C), gas chromatography-mass spectrophotometer and elemental analysis. The synthesized compounds were screened against various strains of microorganism: *Staphylococcus aureus, Bacillus species, Escherichia coli, Klebsiella pneumonia, Serratia marcescens*, and *Candida albicans*. Compounds 1 and 2 showed significant activity against Staphylococcus aureus and Serratia marcescens with MIC ranging from 6-12 mg/mL.