

Dahiya R, Mourya R. Synthetic studies on novel nitroquinazolinone analogs with antimicrobial potential. *Bull. Pharm. Res.* 2013;3(2):51-7.

Abstract: A novel series of 4-[2-(3-bromophenyl)-7-nitro-4-oxo-3,4-dihydro-3-quinazolinyl] benzoyl amino acids and di/tripeptides was synthesized using diisopropylcarbodiimide (DIPC) as the coupling agent and *N*-methylmorpholine (NMM) as the base. Structures of all the newly synthesized peptide analogs were elucidated using IR, $^1\text{H}/^{13}\text{C}$ NMR, MS spectral data and evaluated for antimicrobial potential against pathogenic microbes. Most of the compounds exhibited potent antifungal activity against pathogenic *Candida albicans* and dermatophytes, in comparison to reference compound. Good bioactivity was also seen against gram-negative bacteria for synthesized compounds.

Key words: Quinazolinones, 4-Nitroanthranilic acid, Peptide analogs, Coupling, Antifungal activity.

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