

Synthesis of novel 2,3- disubstituted quinazoline- 4(3H) ones and their effect on the ultrastructure of some pathogenic microorganisms

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Abstract

A series of highly functionalized hitherto unreported quinazolinones with different substituent at position 3 have been concisely synthesized in good yields via the reaction of 3-amino-6-bromo-2-undecylquinazoline-4(H)one with one carbon donor such as phenylisothiocyanate, α - halogenated compounds and chloroacetylchloride. Moreover, the reaction of 6-bromo-2-undecylbenzoxazin-4(H)onewith different hydrazides and 2-aminothiophenol was also investigated. The structures of all new synthesized compounds in this investigation were determined using spectroscopic tools (IR, ¹HNMR, MS and ¹³C-NMR).

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