

ABSTRACT BOOK

5TH INTERNATIONAL BURSA SCIENTIFIC RESEARCHS CONGRESS

March 01-03, 2024, Bursa, TÜRKİYE

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SYNTHESIS OF NEW DRUG CANDIDATE SUBSTITUTED TRIAZOLE-COUMARIN HYBRIDS

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Abstract

In the field of pharmaceutical science, researchers are constantly searching for new molecules and structures that exhibit specific properties. More than 67% of the compounds listed in the Comprehensive Medicinal Chemistry (CMC) database are heterocyclic. Many biological molecules, especially the bases adenine, thymine, guanine and cytosine found in DNA and RNA, contain heterocyclic rings in their skeletons. In addition, many natural and synthetic drugs contain heterocyclic structures **[1]**.

Coumarins are bioactive organic compounds of both natural and synthetic origin, belonging to the benzopyrone chemical class. Due to their various pharmaceutical and biological activities, there has been an increasing interest in their synthesis recently. Various biological activities of coumarins are well known, such as anticoagulant, antithrombotic, antimicrobial, antibacterial, anticancer, anti-Alzheimer, and anti-HIV activities **[2]**.

1,2,3-Triazole derivatives have gained significant importance due to their wide range of biological activities. These biologically interesting central structural motifs have shown therapeutic potential in different areas such as antitumor, anti-HIV, antifungal and antioxidant **[3]**.

The piperazine scaffold is a structure frequently featured in biologically active compounds. Piperazine and its derivatives have attracted great attention in medicinal chemistry due to their antibacterial, antiviral, antifungal and antitumor effects **[4]**.

Click chemistry, also called linkage chemistry, is a reaction that joins molecules in an easy, efficient and versatile way. For this reason, Click chemistry has become useful and attractive in many fields such as drug development, biomedical materials and polymer synthesis **[5]**.

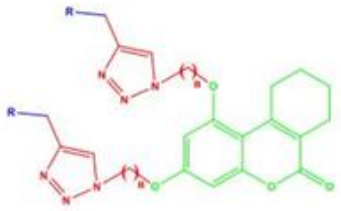


Figure: Coumarin-triazole hybrid structure synthesized in this study

In this study, based on the coumarin motif, various substituted triazole-coumarin hybrid compounds with the potential to exhibit various biological activities were synthesized and their antioxidant activities were realized.

Keywords: Coumarin, 1,2,3-Triazoles, Click Chemistry, Antioxidant Activity

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