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Cytotoxic Evaluation of Haplophyllum Virgatum Var. Virgatum Against Raji Cell Line

Fahimeh Ghaseri,1 Farah Karimi,1* Morteza Yousefzadi,2 Nosrat Rahmani1

1Department of Biology, Faculty of Basic Sciences, Shahed University, Tehran, Iran
2Department of Biology, Faculty of Basic Sciences, Hormozgan University, Bandar Abbas, Iran

The genus Haplophyllum with the local name of “Sodabi,” is represented in the flora of Iran by 30 species of which 14 are endemic. Various members of the genus are used in traditional medicine. The present study is focused on the cytotoxic activity of methanolic extract that was isolated from dried leaves and roots of the Haplophyllum virgatum. The plants were gathered from Hormozgan province-Iran and dried at room temperature. Leaf and rootsof dried plants extracted three times with methanol for 24 h. The methanolic extract was partitioned sequentially between Et2O, CH2Cl2, n-butanol and water. The cytotoxic properties of the isolated partitions were examined against Raji cells using the MTT assay. All results were expressed as IC50 values (the concentration of extract that inhibited cell proliferation up to 50% of the negative control). Results showed that Et2O extract had highest cytotoxic effect on this cancerous cell line.

References