

Cytotoxic evaluation of Haplophyllum Virgatum Var. Virgatum Against Raji Cell

Line

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**CYTOTOXIC EVALUATION OF *HAPLOPHYLLUM VIRGATUM* VAR.
VIRGATUM AGAINST RAJI CELL LINE**

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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. Leaves and roots of dried plants were 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 the highest cytotoxic effect on this cancerous cell line.

References

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