

Revealing the anti-tumoral effect of Algerian *Glaucium flavum* roots against human cancer cells

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Description:

Glaucium flavum (*G. flavum*) is a plant from the Papaveraceae family native to Algeria where it is used in local traditional medicine to treat warts. *G. flavum* root crude alkaloid extract inhibited breast cancer cell proliferation and induced G2/M phase cycle arrest and apoptosis without affecting normal cells, which is a highly awaited feature of potential anti-cancer agents. *G. flavum* significantly reduced growth and vascularization of human glioma tumors on chicken chorioallantoic membrane (CAM) in vivo. The chromatographic profile of the dichloromethane extract of *G. flavum* root showed the presence of different constituents including the isoquinoline alkaloid protopine, as the major compound. We report for the first time that *G. flavum* extract may represent a new promising agent for cancer chemotherapy.

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