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大會摘要預覽

Vitexin Triggers Apoptosis via Mitochondrial Signaling Pathway in Human U937 Leukemia Cells

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Vitexin has been shown to induce apoptotic cell death in human breast cancer cell lines. However, there is no report addressing that vitexin induced cell death in human U937 leukemia cells. The purpose of this study was investigated the mechanisms of vitexin-induced cell death in human U937 leukemia cells. The results indicated that vitexin significantly decreased the percentage of viability, triggered apoptosis in U937 cells. The down-regulation of the protein levels for Bcl-2 with the simultaneous up-regulation of the cytochrome c, Apaf-1, AIF, caspase-3, -7, -9 and Bax protein expressions by western blotting in U937 cells after vitexin treatment. On the other hand, the exhibition of the caspase-3, -9 activities were observed in U937 cells after vitexin treatment. Our results suggested that vitexin might be used as a therapeutic agent for the treatment of human leukemia in the future.

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